



REGULAR CITY COUNCIL MEETING

6:30 PM – COUNCIL CHAMBERS – CITY HALL

FEBRUARY 7, 2023

AGENDA

ALL CITIZENS DESIRING TO ADDRESS THE PORT ORANGE CITY COUNCIL DURING PUBLIC PARTICIPATION SHOULD COMPLETE THE FORM WHICH IS LOCATED ON THE STANDS OUTSIDE THE COUNCIL CHAMBERS. AFTER COMPLETING THE FORM, PRESENT IT TO THE CITY CLERK.

A. OPENING

1. Invocation by Father Matt Mello of Our Lady of Hope Catholic Church
2. Pledge of Allegiance
3. Roll Call

B. RECOGNITION AND PROCLAMATIONS

4. Volusia County Teacher of the Year - Vonda Morris
5. Fire Department Recognition of Gregg Bastian

C. CONSENT AGENDA

6. Public Comments on Consent Agenda Items Only
7. Agenda Approval
8. Approval of Minutes
 - a. January 17, 2023 - Regular City Council Meeting
 - b. January 19, 2023 - Town Hall Meeting
 - c. January 24, 2023 - City Council Workshop
9. Bid Awards and Contract Items
 - a. Approval of Task Authorization No. 3 to Mead & Hunt, Inc. under the Master Contract for Professional Engineering Services for Public Utilities and Environmental Services CA7761 for Consent Order OCG No. 21-0734 Compliance Plan Phase III Reclaimed Water Reservoir Improvements
10. Resolution No. 23-09 - Approval of First Quarter Budget Amendments for Fiscal Year 2022-2023

11. Approval of Proportionate Fair-Share Agreement for Hampton Manor Site Plan (Case No. 22-80000005)

12. Approval of Memorandum of Understanding (MOU) with the International Association of Firefighters (IAFF) Collective Bargaining Agreement

D. PUBLIC PARTICIPATION (Non-Agenda – 20 minutes)

E. COUNCIL COMMENTS

13. Comments/Concerns from Council Members

F. SPECIAL REPORTS

14. Report from KemperSports on the Cypress Head Golf

G. BOARD APPOINTMENTS, INTERVIEWS, AND REPORTS

15. Environmental Advisory Board Report

16. Golf Course Advisory Board Report

H. REGULAR AGENDA

17. Declaration of Vacant Council Seat District 2

18. Discussion on Interim Council Member and Special Election for District 2 Council Member

I. ADDITIONAL ITEMS

19. City Attorney

20. City Manager

a. Legislative Priorities Update

J. COUNCIL COMMITTEE REPORTS

21. City Council Committee Reports

a. General Employees' Pension Plan - Council Member Scott Stiltner

b. River to Sea TPO - Vice Mayor Reed Foley

c. Roundtable of Elected Officials - Mayor Don Burnette

K. ADJOURNMENT

NOTICES – PURSUANT TO SECTION 286.0105 OF THE FLORIDA STATUTES, IF ANY PERSON DECIDES TO APPEAL ANY DECISION MADE BY THE CITY COUNCIL WITH RESPECT TO ANY MATTER CONSIDERED AT THIS PUBLIC MEETING OR HEARING, SUCH PERSON WILL NEED A RECORD OF THE PROCEEDINGS, AND THAT, FOR SUCH PURPOSE, SUCH PERSON MAY NEED TO ENSURE THAT A VERBATIM RECORD OF THE



Regular City Council Meeting

2/7/2023

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PROCEEDINGS IS MADE, WHICH RECORD INCLUDES THE TESTIMONY AND EVIDENCE UPON WHICH THE APPEAL IS TO BE BASED. THE CITY DOES NOT PREPARE OR PROVIDE SUCH A RECORD.

FOR SPECIAL ACCOMMODATIONS, PLEASE NOTIFY THE CITY CLERK'S OFFICE (PHONE: 386-506-5563) AS FAR IN ADVANCE AS POSSIBLE, BUT PREFERABLY WITHIN 2 WORKING DAYS OF YOUR RECEIPT OF THIS NOTICE OR 5 DAYS PRIOR TO THE MEETING OR HEARING DATE.



HELP FOR THE HEARING IMPAIRED IS AVAILABLE THROUGH THE ASSISTIVE LISTENING SYSTEM RECEIVERS CAN BE OBTAINED FROM THE CITY CLERKS' OFFICE.

IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA), IF YOU ARE A PERSON WITH A DISABILITY WHO NEEDS AN ACCOMMODATION IN ORDER TO PARTICIPATE IN THIS PROCEEDING, YOU ARE ENTITLED, AT NO COST TO YOU, THE PROVISION OF CERTAIN ASSISTANCE. PLEASE CONTACT THE CITY CLERK FOR THE CITY OF PORT ORANGE, 1000 CITY CENTER CIRCLE, PORT ORANGE, FLORIDA 32129, TELEPHONE NUMBER 386-506-5563, CITYCLERK@PORT-ORANGE.ORG, AS FAR IN ADVANCE AS POSSIBLE, BUT PREFERABLY WITHIN 2 WORKING DAYS OF YOUR RECEIPT OF THIS NOTICE OR 5 DAYS PRIOR TO THE MEETING OR HEARING DATE. IF YOU ARE HEARING OR VOICE IMPAIRED, CONTACT THE RELAY OPERATOR AT 7-1-1 or 1-800-955-8771.

UPON REQUEST BY A QUALIFIED INDIVIDUAL WITH A DISABILITY, THIS DOCUMENT WILL BE MADE AVAILABLE IN AN ALTERNATE FORMAT. IF YOU NEED TO REQUEST THIS DOCUMENT IN AN ALTERNATE FORMAT, PLEASE CONTACT THE CITY CLERK WHOSE CONTACT INFORMATION IS PROVIDED ABOVE.

ANY INVOCATION THAT IS OFFERED BEFORE THE OFFICIAL START OF THE CITY COUNCIL MEETING SHALL BE THE VOLUNTARY OFFERING OF A PRIVATE PERSON, TO AND FOR THE BENEFIT OF THE CITY COUNCIL. THE VIEWS OR BELIEFS EXPRESSED BY THE INVOCATION SPEAKER HAVE NOT BEEN PREVIOUSLY REVIEWED OR APPROVED BY THE CITY COUNCIL OR THE CITY STAFF, AND THE CITY IS NOT ALLOWED BY LAW TO ENDORSE THE RELIGIOUS BELIEFS OR VIEWS OF THIS, OR ANY OTHER SPEAKER. PERSONS IN ATTENDANCE AT THE CITY COUNCIL MEETING ARE INVITED TO STAND DURING THE OPENING INVOCATION AND PLEDGE OF ALLEGIANCE. HOWEVER, SUCH INVITATION SHALL NOT BE CONSTRUED AS A DEMAND, ORDER, OR ANY OTHER TYPE OF COMMAND. NO PERSON IN ATTENDANCE AT THE MEETING SHALL BE REQUIRED TO PARTICIPATE IN ANY OPENING INVOCATION THAT IS OFFERED. A PERSON MAY EXIT THE CITY COUNCIL CHAMBERS AND RETURN UPON COMPLETION OF THE OPENING INVOCATION IF A PERSON DOES NOT WISH TO PARTICIPATE IN OR WITNESS THE OPENING INVOCATION.



CITY COUNCIL AGENDA ITEM

COUNCIL MEETING DATE 2/7/2023

SUBJECT: (C8a) January 17, 2023 - Regular City Council Meeting

DEPARTMENT: City Clerk

GOAL:

RECOMMENDED MOTION:

SUMMARY:

PRESENTER: System Admin

ATTACHMENTS:

1.	1/17/2023 CC Draft Minutes	1/17/2023 CC Draft Minutes.doc
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Tracee Cody

Created/Initiated - 1/27/2023

REGULAR CITY COUNCIL MEETING MINUTES
COUNCIL CHAMBERS – CITY HALL
1000 CITY CENTER CIRCLE
PORT ORANGE, FLORIDA
JANUARY 17, 2023

THE REGULAR CITY COUNCIL MEETING of the City of Port Orange was called to order by Mayor Donald O. Burnette at 6:30 p.m.

Invocation by Rev. Susan McCaffrey of Grace Episcopal Church

Pledge of Allegiance

Roll Call	Present:	Councilman Drew Bastian Councilman Scott Stiltner Vice Mayor Reed Foley Mayor Don Burnette
	Absent:	Councilwoman Kat Atwood
	Also Present:	Wayne Clark, City Manager Matthew Jones, City Attorney Tracee Cody, Assistant City Clerk

Mayor Don Burnette regretfully announced Councilwoman Kat Atwood's resignation effective immediately. Mayor Don Burnette asked for two agenda items on the February 7th Council meeting. One to discuss the process for appointing an Interim Council Member and selecting dates for a Special Election and one to officially declare the vacancy of the District 2 seat.

RECOGNITION AND PROCLAMATIONS

4. Arbor Day Proclamation

Mayor Don Burnette read the proclamation for Arbor Day and presented it to Steve Edgar, City Forester.

5. Human Trafficking Awareness Day Proclamation

Vice Mayor Reed Foley read the proclamation for Human Trafficking Awareness Day and Mayor Don Burnette presented it to Christy Gillis, the Department of Children and Families' Circuit 7 Community Development Administrator.

CONSENT AGENDA

6. Public Comments on Consent Agenda Items Only

There were none.

7. Agenda Approval

There were no changes requested by Council.

Motion to approve the agenda as presented was made by Vice Mayor Reed Foley and Seconded by Councilman Scott Stiltner. Motion carried unanimously by voice vote.

8. Approval of Minutes
 - a. December 13, 2022 - Regular City Council Meeting
9. Bid Awards and Contract Items
 - a. Approval of Service Agreement with Halifax Humane Society
 - b. Approval of Change Order No. 2 with Paul Culver Construction, Inc. for Ceiling & HVAC Replacement at Fire Station #74
 - c. Approval of a six (6) month extension to the Standard Contract for Services (CA7037) with Danus Utilities Inc. under ITB 19-19 Rehabilitation of Sanitary Manholes for the term of October 31, 2022 through April 30, 2023.
 - d. Approval of Agreement with Flock Safety Government Agency for Flock Falcon license plate readers
 - e. Approval to Waive the Bidding Requirements and Enter into a Contract with Explosive Touch for Fireworks on July 4th
10. Resolution No. 23-01 - Approval of FDOT Locally Funded Agreement for 444033-1-32-01 Port Orange Sidewalk Gaps - Port Orange Project #OMI036
11. Resolution No. 23-02 - Approval of FDOT Locally Funded Agreement for 449770-2-32-01 Dunlawton Avenue Turn Lanes Bundle - Port Orange Project #PNC200
12. Resolution No. 23-03 - Approval of FDOT Locally Funded Agreement for 446285-1-32-01 Willow Run Boulevard Sidewalk from Harms Way to Clyde Morris Boulevard - Port Orange Project #OMI036
13. Resolution No. 23-04 - Approval of FDOT Locally Funded Agreement for 448772-1-32-01 Williamson Boulevard and Willow Run Boulevard Sidewalks - Port Orange Project #OMI036
14. Resolution No. 23-07 - Conveyance of the City's Mineral Rights for Land Adjacent to McDonald Road through a Quit Claim Deed
15. Resolution No. 23-08 - Reimbursement Resolution for Public Safety Equipment
16. Resolution No. 23-10 - Master Lease Purchase Agreement for Public Safety Equipment with TD Equipment Finance, Inc.
17. Approval to Remove a Residential Historic Tree located at 812 Kokomo Circle
18. Acceptance of the City Attorney's Report on Special Legal Counsel for 2023

Motion to approve Consent Agenda as presented was made by Vice Mayor Reed Foley and Seconded by

Councilman Scott Stiltner. Motion
carried unanimously by roll call vote.

PUBLIC PARTICIPATION (Non-Agenda – 20 minutes)

There were none.

COUNCIL COMMENTS

19. Comments/Concerns from Council Members

Vice Mayor Reed Foley voiced residents' concerns about speeding on Riverside Drive near Harbor Oaks and traffic lights being out along Nova Road. Councilman Scott Stiltner welcomed the East Coast Cruisers, a car enthusiast club, event to City Center. Mayor Don Burnette reminded residents about the annual Town Hall meeting on Thursday night.

BOARD APPOINTMENTS, INTERVIEWS, AND REPORTS

20. Citizen Advisory Committee for TPO

Bobby Ball, CAC member, provided an update from their recent meeting.

21. Parks & Recreation Advisory Board Report

Bobby Ball, Vice Chair, provided an update on the Parks & Recreation Advisory Board.

PUBLIC HEARING

22. Second Reading - Ordinance No. 2022-32 - LDC Amendment/Chapter 20 - Ridgewood Targeted Business Program

Mayor Don Burnette read Ordinance No. 2022-32.

ORDINANCE NO. 2022-32

AN ORDINANCE OF THE CITY OF PORT ORANGE, VOLUSIA COUNTY, FLORIDA AMENDING THE LAND DEVELOPMENT CODE CHAPTER 20 RELATING TO RIDGEWOOD CORRIDOR TARGETED BUSINESSES RELATING TO ADDITIONAL DEVELOPMENT INCENTIVES; PROVIDING FOR REPEAL OF CONFLICTING ORDINANCES; PROVIDING FOR SEVERABILITY; AND PROVIDING AN EFFECTIVE DATE.

Motion to adopt Ordinance No. 2022-32
was made by Vice Mayor Reed Foley
and Seconded by Councilman Scott

Stiltner. Motion carried unanimously by
roll call vote.

23. Approval of the Flagship Commons Final Subdivision Plat (Case No. 22-50000004)

Motion to approve was made by Vice
Mayor Reed Foley and Seconded by
Councilman Scott Stiltner.

Penelope Cruz, Planning Manager, provided details on the Approval of the Flagship Commons Final Subdivision Plat and answered questions from Council.

Robert Reinhagen, citizen, suggested the item be brought back for further clarification of the traffic pattern regarding entrances and exits.

Motion carried unanimously by roll call
vote.

ADDITIONAL ITEMS

24. City Attorney

There was nothing further.

25. City Manager

Wayne Clark, City Manager, clarified with the Mayor that the Town Hall meeting will have a meet and greet with staff from 6:30-7:00 prior to the meeting presentation.

COUNCIL COMMITTEE REPORTS

26. City Council Committee Reports

a. First Step Shelter – No report was given and Mayor Don Burnette announced this committee assignment will become open.

b. Port Orange/South Daytona Chamber of Commerce - Mayor Don Burnette provided details of upcoming events.

ADJOURNMENT – 7:05 p.m.

Mayor Donald O. Burnette

Attest:

Robin Fenwick, MMC
City Clerk



CITY COUNCIL AGENDA ITEM

COUNCIL MEETING DATE 2/7/2023

SUBJECT: (C8b) January 19, 2023 - Town Hall Meeting

DEPARTMENT: City Clerk

GOAL:

RECOMMENDED MOTION:

SUMMARY:

PRESENTER: System Admin

ATTACHMENTS:

1.	1-19-2023 Town Hall Draft Minutes	1-19-2023 Town Hall Draft Minutes.doc
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Tracee Cody

Created/Initiated - 1/27/2023

TOWN HALL MEETING MINUTES
LAKESIDE COMMUNITY CENTER
1999 CITY CENTER CIRCLE
PORT ORANGE, FLORIDA
JANUARY 19, 2023

THE TOWN HALL MEETING of the City of Port Orange was called to order by Mayor Donald O. Burnette at 7:00 p.m.

Silent Invocation

Pledge of Allegiance

Roll Call	Present:	Council Member Scott Stiltner Council Member Drew Bastian Mayor Donald Burnette
	Absent:	Vice Mayor Reed Foley
	Also Present:	City Manager Wayne Clark City Attorney Matthew Jones Assistant City Managers Robin Fenwick & Jonathan McKinney Assistant City Clerk Tracee Cody

Mayor Don Burnette welcomed all and presented information on the City. He spoke about recovery efforts from Hurricane Ian and Tropical Storm Nicole, Riverwalk projects, and the Port Orange REC opening soon.

Council Members Scott Stiltner and Drew Bastian introduced themselves. Mayor Don Burnette introduced Wayne Clark, City Manager. Mr. Clark introduced City Staff present. Citizens asked questions of the Mayor, Council and staff.

ADJOURNMENT – 8:00 p.m.

Attest:

Mayor Donald O. Burnette

Robin Fenwick, MMC
City Clerk



CITY COUNCIL AGENDA ITEM

COUNCIL MEETING DATE 2/7/2023

SUBJECT: (C9a) Approval of Task Authorization No. 3 to Mead & Hunt, Inc. under the Master Contract for Professional Engineering Services for Public Utilities and Environmental Services CA7761 for Consent Order OCG No. 21-0734 Compliance Plan Phase III Reclaimed Water Reservoir Improvements

DEPARTMENT: Public Utilities

GOAL: 2 - Infrastructure

RECOMMENDED MOTION: Move to approve Task Authorization No. 3 under the Master Contract for Professional Engineering Services with Mead & Hunt for the Consent Order OCG No. 21-0734 Compliance Plan Phase III in the amount not to exceed \$244,355.41.

SUMMARY: On August 25, 2021, the Florida Department of Environmental Protection (FDEP) issued a Consent Order (OCG Case No. 21-0734) to the City identifying two violations of the Wastewater Permit associated with the operation of the City of Port Orange Water Reclamation Facility (WRF). One of the violations was for exceeding the Total Suspended Solids (TSS) limits at the reclaimed lakes discharge point identified as EFD-2 for D-002 in the permit. The other violation was for exceeding the annual average discharge flow of 0.999 million Gallons per Day (MGD) for surface water discharge, which is the sum of discharges from D-001 (River Discharge) and D-002 (Wetlands at Reclaimed Lakes Discharge). Mead & Hunt completed an evaluation of the effluent disposal system and identified the cause(s) of the violations listed in the Consent Order as part of Phase I of the Compliance Plan. Additionally, Mead & Hunt prepared an Engineering Report which included a scope of work and schedule for corrective actions submitted to FDEP. To satisfy the violation for exceeding the permitted annual average discharge, a spray field located near the reclaimed water reservoirs was proposed. The spray field location was selected due to its proximity to existing reclaimed water infrastructure. As part of determining how much disposal capacity the spray field would have, soil borings were done to determine the soil classifications and the depth to groundwater. Preliminary geotechnical results reveal the proposed spray field to have a high ground water table is unsuitable to address the flow violations. Due to these unfavorable conditions, the submitted Phase I Compliance Plan was revised and resubmitted to FDEP.

Phase II of the Compliance plan included recommending alternatives to reduce the annual average flow rate for D-001. These alternatives include the construction of a new or expanded reservoir for additional wet weather storage, a new Aquifer Storage and Recovery (ASR) well located on or near the Water Reclamation Facility on Oak St and

increase the volume of the existing reclaimed water reservoirs by raising the existing berms and overflow elevations. Mead & Hunt prepared the requisite level of design of the selected alternative to satisfy and address the requirements of the FDEP Consent Order.

Phase III of the Compliance plan as described above is for the design and permitting of the selected alternative from Phase II. Based on meetings with FDEP staff along with the recommendations of Mead & Hunt, the following improvements will be designed as part of this phase.

- Investigation and repair of the existing suction line in Lake A that feeds the existing disk filter
- Raising the berm height of Lake B and Lake A to provide additional wet weather reclaimed storage.
- Rehabilitation, relocation, and installation of the disk filter from the Water Reclamation Facility (WRF) to the reclaimed lakes to provide additional filtration capacity.
- Rehabilitate the existing disk filter at the Reclaimed Reservoir site. Damage to the existing filter was caused by the lake suction intake pulling in sand from the lake bottom and then being pumped through the filter.

These proposed improvements to the reclaimed reservoirs, once constructed, will satisfy both violations of the Consent Order.

PRESENTER: Lynn Stevens

ATTACHMENTS:

1.	Mead and Hunt Inc. Task Authorizaion No 3 - Reclaim Reservoir Impv	Mead and Hunt Inc. Task Authorizaion No 3 - Reclaim Reservoir Impv.pdf
2.	Department Justification Memo - Mead Hunt TA 3 - Consent Order Compliance Plan Phase III Reclaimed Reservoir Improvements	Department Justification Memo - Mead Hunt TA 3 - Consent Order Compliance Plan Phase III Reclaimed Reservoir Improvements.docx
3.	2023.01.04_Reclaimed Water Reservoir Improvements - Scope & Fee	2023.01.04_Reclaimed Water Reservoir Improvements - Scope & Fee.pdf
4.	2022.08.10_Corrective Action Plan - FINAL SS	2022.08.10_Corrective Action Plan - FINAL SS.pdf
5.	Sept 29 2021 executed consent order	Sept 29 2021 executed consent order.pdf

Kelly Klausky	Created/Initiated - 1/18/2023
Julia Wiggins	Approved - 1/18/2023
Junos Reed	Approved - 1/18/2023
Steve Parnell	Approved - 1/18/2023
Lynn Stevens	Approved - 1/18/2023
Jill Poolman	Approved - 1/19/2023
John McKinney	Approved - 1/19/2023

Matthew Jones
Wayne Clark
Robin Fenwick

Approved - 1/26/2023
Approved - 1/27/2023
Final Approval - 1/27/2023

TASK AUTHORIZATION NO. 3
Master Contract for Professional Engineering Services for
Public Works, Utilities and Environmental Services
dated January 18, 2022,
Between the City of Port Orange, Florida and Mead and Hunt, Inc.

THIS Task Authorization is entered into by and between the **CITY OF PORT ORANGE, FLORIDA**, a chartered municipal corporation with its principal place of business at 1000 City Center Circle, Port Orange, Florida 32129 (the "City") and **Mead and Hunt, Inc.**, Florida corporation, with its principal place of business at 2440 Deming Way, Middleton, Wisconsin 53562-1562 ("Engineer"), and hereinafter collectively referred to as the "Parties," and is to that certain Master Contract relating to Professional Engineering Services for Public Works, Utilities and Environmental Services, as dated above, and any amendments thereto, hereinafter collectively referred to as the "Contract." The Parties, in exchange for the mutual covenants contained herein and in the Contract, agree as follows:

1. This Task Authorization expressly modifies the Contract and in the event of a conflict, the terms and conditions of this Task Authorization shall prevail.

2. In addition to all other terms and conditions contained in the Contract, Engineer shall provide services relating to the Reclaimed Water Reservoir Improvements, and as more particularly described in the Scope of Services attached hereto and incorporated herein as **Task Authorization Exhibit "3."**

3. Engineer shall complete the services to be provided herein and the Compliance Plan shall be completed no later than **600 days** from the date of issuance of a written Notice to Proceed by the City to the Engineer.

4. In return for the services identified above, the City agrees to compensate Engineer at the prices set forth in Exhibit "1," attached hereto and made a part hereof, subject to a limit not to exceed **\$244,355.41**. All payments shall be governed by the Local Government Prompt Payment Act as Set forth in Sections 218.70 through 218.79, Florida Statutes, as amended.

5. *Truth-in-Negotiations*

(a) For any fixed fee, cost-plus-a-fixed-fee or guaranteed maximum-not-to-exceed compensation professional service contract or compensation in a Task Authorization over \$150,000.00, Engineer shall execute a truth-in-negotiation certificate stating that wage rates and other factual unit costs supporting the compensation are accurate, complete, and current at the time of contracting. Any professional service contractor Task Authorization under which such certificate is required must contain a provision that the original contract price or compensation and any additions thereto will be adjusted to exclude any significant sums by which the City determines the contract price or compensation was increased due to inaccurate, incomplete, or noncurrent wage rates and other factual unit costs. All such contract or compensation adjustments must be made within one (1) year following the end of the Contract. Otherwise, such adjustments shall be deemed waived by the Engineer and null and void for the purposes of this Contract or Task Authorization. The signature on this Contract by the Engineer shall act as the execution of a truth-in-negotiation certificate stating that the wage rates and other factual unit costs supporting the compensation of this Contract are accurate, complete, and current at the time of contracting.

(b) Engineer's signature on this Contract or a Task Authorization shall act as execution of a truth-in-negotiation certificate stating that wage rates and other factual unit costs supporting the compensation set forth in this Contract or a Task Authorization are accurate, complete, and current at the time of contract. The certification shall also constitute an affirmation that Engineer has disclosed all debts or fees owed to or that are pending before the City prior to the execution of this Contract of Task Authorization

6. This Task Authorization may be executed in one or more counterparts, each of which shall be deemed to be an original but all of which together shall constitute one and the same instrument. The delivery by facsimile or e-mail of an executed copy of this Task Authorization shall be deemed valid as if an original signature was delivered. No contract shall be formed between the Engineer and the City until the City signs this Task Authorization.

IN WITNESS WHEREOF, the Parties have made and executed this Task Authorization for the purposes herein expressed on the dates set forth below.

Witnesses:

MEAD AND HUNT, INC.

Printed Name: _____

By: _____
Brad Blais, Vice President

Printed Name: _____

Date: _____

Witnesses:

CITY OF PORT ORANGE

Printed Name: _____

By: _____
Donald O. Burnette, Mayor

Printed Name: _____

Date: _____

Witnesses:

ATTEST:

Printed Name: _____

By: _____
Robin L. Fenwick, MMC, City Clerk

Printed Name: _____

Date: _____

EXHIBIT “1”

Engineer's Quote

Consisting of 30 Pages



January 4, 2023

Lynn Stevens
Public Works and Utilities Director
City of Port Orange
1395 Dunlawton Avenue
Port Orange, FL 32129

Email: lstevens@port-orange.org
Hard Copy Mailed Only on Request

Subject: Reclaimed Water Reservoir Improvements – Scope and Fee Proposal

Dear Ms. Stevens,

Mead & Hunt is pleased to provide this engineering scope of services and a fee estimate for the above referenced project. This project is in response to the required actions set forth by the Compliance Plan submitted to the Florida Department of Environmental Protection's (FDEP) Consent Order (OGC No. 21-0734) and the recent schedule extension request. The project will include design documents for the following:

- Investigation and repair of the existing suction line in Lake A that discharges downstream into the permitted wetlands
- Raising the berm height of Lake B and operation of Lake B and Lake A at a higher water level to provide additional reclaimed water storage
- Rehabilitation, relocation, and installation of the existing Water Reclamation Facility (WRF) disc filter.
- Rehabilitation of the existing wetland's discharge disc filter.

If you have any questions or require additional information, please contact me.

Sincerely,
MEAD & HUNT, Inc.

Brad Blais, P.E.
Vice President/Client Manager

Tonya Sonier, P.E.
Project Manager

Enclosure – Scope of Services and Fee Estimate

cc: Chris Wall, Junos Reed, Steve Parnell

**CITY OF PORT ORANGE
SCOPE OF SERVICES
FOR
RECLAIMED WATER RESERVOIR IMPROVEMENTS**

This Task Order is in conformance with the Master Contract for Engineering Services RFSQ 21-03 Professional Engineering Services for Public Works, Utilities, and Environmental Services Dated January 18, 2022 between the City of Port Orange (CITY) and Mead & Hunt, Inc. (MEAD & HUNT) and is referred to herein as the Contract.

GENERAL

The Florida Department of Environmental Protection (FDEP) has reviewed and approved the City's revised Corrective Action Plan submitted in August 2022. The scope of services herein is detailed below address the following corrective actions per Consent Order OGC No. 21-0734:

- D-001 Flow Violation: the City currently stores treated reclaimed water in Lake A and Lake B. To provide additional reclaimed water storage, the Lake B reservoir will be evaluated and designed with higher berms to match the Lake A berm elevation and both lakes are proposed to operate with 1-ft of additional staging. This is anticipated to require extensive permitting and modification of the existing control and drainage structures to accommodate the new hydraulic profile.
- EFD-2 TSS Violation: when discharging to the nearby wetlands, the City withdraws water from Lake B and sends it through an existing disc filter. The City recently rehabilitated the existing disc filter. After rehabilitation, operation of the equipment resulted in the filter bound with sand. The sand is suspected to enter the filters from a physical defect in the existing Lake intake pipe. The design documents will detail dewatering and excavation of the existing intake pipe to allow visual inspection and proceed with repair.

In addition to the intake repair, design documents will include the rehabilitation, relocation and installation of the existing City owned disc filter (currently that the R. Dwayne Huffman WRF) to the existing Reclaimed Water Reservoir. The existing wetland's discharge disc filter will also be included in the rehabilitation design documents.

The design documents will be provided in

- Package 1: Raising the berm height of Lake B and operation of Lake B and Lake A at a higher water level too provide additional reclaimed water storage
- Package 2: Investigation and repair of the Lake A suction line; disc filter relocation; disc filters rehabilitation

SCOPE OF SERVICES

After receipt of authorization to proceed, MEAD & HUNT will provide the following services:

PHASE 1 – PROJECT MANAGEMENT

Task 1 - Project Management

MEAD & HUNT'S Project Manager (PM) will initiate the project and manage the budget and schedule, manage project staffing, review subconsultant invoices, manage project coordination, and schedule quality management processes for work products. The PM will monitor progress throughout the project and prepare monthly invoices for the CITY. It is assumed that these services will cover the estimated 13-month project design & bidding.

MEAD & HUNT will conduct a project kick-off meeting with the project team and CITY staff to review project goals, scope of work, project schedule and administrative issues. Following the meeting, MEAD & HUNT will prepare a written summary of the project meeting and distribute to the attendees.

MEAD & HUNT will implement a quality assurance and control process, which includes:

Independent technical review of alternatives developed and evaluated, and recommendations made by the project team. Reviews will include evaluations of constructability, performance, and conflicts.

Independent review of the project technical work products before its submission to the CITY.

Deliverables – Project Management

- Kick-Off Meeting Agenda and Summary
- Monthly Invoices

Task 2 – Subconsultant Coordination

Geotechnical: MEAD & HUNT will obtain the services of a geotechnical subconsultant for berm stability analysis. The geotechnical costs will be billed in the Subconsultants and Reimbursable section. MEAD & HUNT coordination of the geotechnical efforts and administration of the subconsultants contract are included herein.

Survey: MEAD & HUNT will obtain the services of a licensed surveyor to conduct a site survey including the existing drainage and outfall structures, Lake A and B berms, and the Lake A intake pipe. The surveyor costs will be billed in the Subconsultants and Reimbursable section. MEAD & HUNT coordination of the survey efforts and administration of the subconsultants contract are included herein.

Hydrogeologic Evaluation: MEAD & HUNT will obtain the services of a licensed hydrogeologist to conduct a hydrogeologic evaluation and water balance analysis. The hydrogeologist costs will be billed in the Subconsultants and Reimbursable section. MEAD & HUNT coordination of the hydrogeologist efforts and administration of the subconsultants contract are included herein.

Permitting: MEAD & HUNT will obtain the services of Biological Consulting Services, Inc. (BCS) for permitting coordination with SJRWMD, ACOE, and FDEP. BCS's costs will be billed in the Subconsultants and Reimbursable section. MEAD & HUNT coordination of BCS's efforts and administration of the subconsultants contract are included herein.

PHASE 2 – PRELIMINARY DESIGN

Task 1 - Preliminary Design Report – Lake Storage Modifications

MEAD & HUNT will prepare a draft Preliminary Design Report (PDR) evaluating the feasibility and wetland impacts of raising the Lake B berm height to match Lake A's berm height and for both Lakes to operate at a higher high-water level (HWL), providing additional reclaimed water storage. The PDR will include a preliminary engineer's opinion of probable construction cost (EOPCC) and confirmation of project permitting requirements.

A draft PDR will be submitted to the CITY for review and comment. It is assumed the CITY will conduct their review in a two-week period and a meeting will be held at the end of the CITY review.

MEAD & HUNT will schedule and attend a draft PDR review meeting to review the CITY comments on the draft PDR. Comments received will be incorporated into the final PDR and subsequent design documents.

Deliverables – Preliminary Design

- Draft Preliminary Design Report
- Preliminary Design Review Meeting Summary
- Final Preliminary Design Report

PHASE 3 – LAKE STORAGE MODIFICATIONS DESIGN & PERMITTING

Task 1 – 60% Design Development

MEAD & HUNT will develop 60% Drawings and specifications that reflect the proposed improvements. MEAD & HUNT will provide a 60% engineer's opinion of probable construction cost (EOPCC).

Ms. Lynn Stevens

January 4, 2023

Page 5

The 60% submittal package will be submitted to the CITY for review and comment. The submittal will include the items shown in the deliverable section below. It is assumed the CITY will conduct their review in a two-week period, and a meeting will be held at the end of the CITY's review.

MEAD & HUNT will schedule and attend a 60% design review meeting to review the CITY's comments on the design drawings and specifications. Comments received will be incorporated into the 100% design documents.

Deliverables – 60% Design

- 60% Design Drawings
- 60% Specifications
- 60% EOPCC

Task 2 – 100% Design Development

MEAD & HUNT will develop 100% drawings and specifications that reflect the comments received at the 60% Design review meeting. The CITY's standard front-end contract documents will be used and coordinated with MEAD & HUNT's technical specifications. MEAD & HUNT will provide a 90% engineer's opinion of probable construction cost (EOPCC).

The 100% submittal package will be submitted to the CITY for review and comment. The submittal will include the items shown in the deliverable section below. A comment/response log will be included with the submittal to document how the CITY's comments from the 60% review meeting are addressed in the 100% submittal. It is assumed the CITY will conduct their review in a two-week period, and a meeting will be held at the end of the CITY's review.

MEAD & HUNT will schedule and attend a 100% design review meeting to review the CITY's comments on the design drawings and specifications.

Deliverables – 100% Design

- 100% Design Drawings
- 100% Specifications
- 100% EOPCC
- 60% Comment/Response Log

Task 3 – Issued for Bid Documents

Ms. Lynn Stevens

January 4, 2023

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Based on the CITY's 100% review comments and discussions at the 100% review meeting, MEAD & HUNT will advance the 100% design drawings and specifications to Bid Documents. MEAD & HUNT will prepare and submit bid documents including bid number, pre-bid date and time, and other pertinent information to create a Bid Set of the plans and specifications.

Deliverables – 100% Design

- Issued for Bid Drawings
- Issued for Bid Specifications
- 100% Comment/Response Log

Task 4 - FDEP Permit

MEAD & HUNT will attend up to one (1) pre-application meeting with Florida Department of Environmental Protection (FDEP) to discuss permitting requirements. MEAD & HUNT will prepare an agenda and meeting summary for the meeting. After the pre-application meeting, any necessary revisions to the design recommendations will be reviewed with the CITY and incorporated into the various design components.

MEAD & HUNT will prepare and submit the permit application in accordance with the specific permit requirements and input from the pre-application meeting. Permit applications will be submitted after the 60% design has been reviewed and accepted by the CITY. The CITY will receive one (1) electronic copy of final applications and permits. Permit fees will be paid by the CITY.

MEAD & HUNT will respond to up to one (1) Request for Additional Information (RAI) as part of the permit application process. Follow up phone calls or meetings with the regulators to assist with the responses are included in the task. Responses will be limited to clarifications related to the submittals in accordance with the documented permit requirements or those identified in the pre-application meeting. MEAD & HUNT will respond to RAI's in a timely manner to minimize any potential schedule impacts.

Deliverables – FDEP Permitting

- Final Permit application and final permit

Task 5 - SJRWMD Permit

MEAD & HUNT will attend up to one (1) pre-application meeting with Saint John's River Water Management District (SJRWMD) to discuss permitting requirements. MEAD & HUNT will prepare an agenda and meeting summary for the meeting. After the pre-application meeting, any necessary revisions

to the design recommendations will be reviewed with the CITY and incorporated into the various design components.

MEAD & HUNT will prepare and submit the permit application in accordance with the specific permit requirements and input from the pre-application meeting. Permit applications will be submitted after the 60% design has been reviewed and accepted by the CITY. The CITY will receive one (1) electronic copy of final applications and permits. Permit fees will be paid by the CITY.

MEAD & HUNT will respond to up to one (1) Request for Additional Information (RAI) as part of the permit application process. Follow up phone calls or meetings with the regulators to assist with the responses are included in the task. Responses will be limited to clarifications related to the submittals in accordance with the documented permit requirements or those identified in the pre-application meeting. MEAD & HUNT will respond to RAI's in a timely manner to minimize any potential schedule impacts.

Deliverables – SJRWMD Permitting

- Final SJRWMD Permit application and final permit

Task 6 - ACOE Permit

MEAD & HUNT will attend up to one (1) pre-application meeting with the Army Corp. of Engineers (ACOE) to discuss permitting requirements. MEAD & HUNT will prepare an agenda and meeting summary for the meeting. After the pre-application meeting, any necessary revisions to the design recommendations will be reviewed with the CITY and incorporated into the various design components.

MEAD & HUNT does not anticipate permitting requirements through the ACOE. Pre-application meeting will serve as verification of permitting requirements and ensure communication of all original permitting regulatory bodies.

PHASE 4 – LAKE INTAKE PIPE REPAIR & DISC FILTER IMPROVEMENTS DESIGN & PERMITTING

Task 1 – 60% Design Development

MEAD & HUNT will develop 60% Drawings and specifications that reflect the proposed improvements. MEAD & HUNT will provide a 60% engineer's opinion of probable construction cost (EOPCC).

The 60% submittal package will be submitted to the CITY for review and comment. The submittal will include the items shown in the deliverable section below. It is assumed the CITY will conduct their review in a two-week period, and a meeting will be held at the end of the CITY's review.

Ms. Lynn Stevens

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MEAD & HUNT will schedule and attend a 60% design review meeting to review the CITY's comments on the design drawings and specifications. Comments received will be incorporated into the 100% design documents.

Deliverables – 60% Design

- 60% Design Drawings
- 60% Specifications
- 60% EOPCC

Task 2 – 100% Design Development

MEAD & HUNT will develop 100% drawings and specifications that reflect the comments received at the 60% Design review meeting. The CITY's standard front-end contract documents will be used and coordinated with MEAD & HUNT's technical specifications. MEAD & HUNT will provide a 90% engineer's opinion of probable construction cost (EOPCC).

The 100% submittal package will be submitted to the CITY for review and comment. The submittal will include the items shown in the deliverable section below. A comment/response log will be included with the submittal to document how the CITY's comments from the 60% review meeting are addressed in the 100% submittal. It is assumed the CITY will conduct their review in a two-week period, and a meeting will be held at the end of the CITY's review.

MEAD & HUNT will schedule and attend a 100% design review meeting to review the CITY's comments on the design drawings and specifications.

Deliverables – 100% Design

- 100% Design Drawings
- 100% Specifications
- 100% EOPCC
- 60% Comment/Response Log

Task 3 – Issued for Bid Documents

Based on the CITY's 100% review comments and discussions at the 100% review meeting, MEAD & HUNT will advance the 100% design drawings and specifications to Bid Documents. MEAD & HUNT will prepare and submit bid documents including bid number, pre-bid date and time, and other pertinent information to create a Bid Set of the plans and specifications.

Deliverables – 100% Design

- Issued for Bid Drawings
- Issued for Bid Specifications
- 100% Comment/Response Log

Task 4 – Permitting

MEAD & HUNT will attend up to one (1) pre-application meeting with Florida Department of Environmental Protection (FDEP) to discuss permitting requirements. MEAD & HUNT will prepare an agenda and meeting summary for the meeting. After the pre-application meeting, any necessary revisions to the design recommendations will be reviewed with the CITY and incorporated into the various design components.

MEAD & HUNT will prepare and submit the Minor Modifications FDEP permit application in accordance with the specific permit requirements and input from the pre-application meeting. Permit applications will be submitted after the 60% design has been reviewed and accepted by the CITY. The CITY will receive one (1) electronic copy of final applications and permits. Permit fees will be paid by the CITY.

MEAD & HUNT will respond to up to one (1) Request for Additional Information (RAI) as part of the permit application process. Follow up phone calls or meetings with the regulators to assist with the responses are included in the task. Responses will be limited to clarifications related to the submittals in accordance with the documented permit requirements or those identified in the pre-application meeting. MEAD & HUNT will respond to RAI's in a timely manner to minimize any potential schedule impacts.

PHASE 5 – BIDDING ASSISTANCE PACKAGE #1

The CITY will be responsible for managing the bid process, i.e., advertisement, distribution of bid packages, receipt and opening of bids for Bid Package #1 (assumed for Phase 3 design documents). MEAD & HUNT will provide the following bid-phase services for per each bid package:

Pre-Bid Meeting

MEAD & HUNT will attend and lead a pre-bid meeting at the CITY facility to review the project details before bids are submitted. MEAD & HUNT will present project details and answer potential bidders' questions at this meeting.

Addenda

MEAD & HUNT will respond to potential bidders' questions during the bid period. Questions and responses will be documented and submitted to the CITY for distribution to potential bidders in the form of addenda. MEAD & HUNT will prepare one (1) addendum per bid package, for a combined total of two (2) addendum.

Bid Tabulation and Recommendation of Award

MEAD & HUNT will complete a review of the bids for completeness and conformance with the bidding and contract requirements. MEAD & HUNT will evaluate the low bidder(s) submitted qualifications information and contact provided references to inquire about bidders' experience. Based on that review, MEAD & HUNT will submit to the CITY a bid tabulation and a recommendation of award.

Deliverables – Bidding Services

- Pre-bid Meeting Agenda and Summary
- Addenda to bid documents
- Final bid tabulation
- Recommendation of award

PHASE 6 – BIDDING ASSISTANCE PACKAGE #2

The CITY will be responsible for managing the bid process, i.e., advertisement, distribution of bid packages, receipt and opening of bids for Bid Package #2 (assumed for Phase 4 design documents). MEAD & HUNT will provide the following bid-phase services for per each bid package:

Pre-Bid Meeting

MEAD & HUNT will attend and lead a pre-bid meeting at the CITY facility to review the project details before bids are submitted. MEAD & HUNT will present project details and answer potential bidders' questions at this meeting.

Addenda

MEAD & HUNT will respond to potential bidders' questions during the bid period. Questions and responses will be documented and submitted to the CITY for distribution to potential bidders in the form of addenda. MEAD & HUNT will prepare one (1) addendum per bid package, for a combined total of two (2) addendum.

Bid Tabulation and Recommendation of Award

MEAD & HUNT will complete a review of the bids for completeness and conformance with the bidding and contract requirements. MEAD & HUNT will evaluate the low bidder(s) submitted qualifications information and contact provided references to inquire about bidders' experience. Based on that review, MEAD & HUNT will submit to the CITY a bid tabulation and a recommendation of award.

Deliverables – Bidding Services

- Pre-bid Meeting Agenda and Summary
- Addenda to bid documents
- Final bid tabulation
- Recommendation of award

PHASE 7 – SUBCONSULTANTS AND REIMBURSABLES

Items under this phase include out-of-pocket direct job expenses such as reproductions, postage, etc. It is assumed permit application fees will be paid by the CITY.

- Geotechnical – MEAD & HUNT will obtain the services of a licensed geotechnical engineer to conduct a geotechnical evaluation of the existing and proposed berm stability will be performed by Ardaman & Associates, Inc. (A&A). This will be billed at actual cost as a separate allowance.
- Survey – MEAD & HUNT will obtain the services of a licensed surveyor to conduct a survey. The design survey shall include location and survey of the existing lake intake pipe, lake topo elevations (top of berm and staging), pipeline route and alongside between Lake A and Lake B, topo around the existing disc filter, and various structural features. The detailed survey scope by L&S Diversified (L&S) is included herein. This work will be billed at actual cost as a separate allowance.
- Hydrogeologic Evaluation - MEAD & HUNT will obtain the services of a licensed hydrogeologist to conduct a hydrogeologic evaluation of the existing and proposed Lake Storage Reservoirs. The hydrogeologist costs will be billed in the Subconsultants and Reimbursable section. The hydrogeologic evaluation will be performed by Andreyev Engineering, Inc. (AEI). A copy of their proposal is included herein. This work will be billed at actual cost as a separate allowance.
- Permitting Coordination - MEAD & HUNT will obtain the services of Biological Consulting Services, Inc. (BCS) for permitting coordination with SJRWMD, ACOE, and FDEP. Due to BCS's role in permitting of the existing reclaimed lake storage reservoirs, time for permitting coordination and consulting is included. This work will be billed at actual cost as a separate allowance.

EXCLUSIONS

This scope of services excludes all items not specifically described herein, including but not limited to:

- Construction Phase Services
- Conformance of Documents for Construction
- Laboratory Services
- Conformance of Documents (completed during Construction Phase Services)
- Wetland delineation (existing wetland delineation will be assumed/utilized in permitting)

SCHEDULE

Mead & Hunt estimates the work included in this task order will be completed in accordance with the following schedule:

Phase/Task	Duration to Complete	Starting upon
<i>Phase 1 – Project Management</i>	<i>520 days</i>	<i>Receipt of notice to proceed</i>
<i>Phase 2 – Preliminary Design</i>	<i>133 days</i>	<i>Receipt of notice to proceed and sub-consultant deliverables</i>
<i>Phase 3 – Lake Storage Modifications</i>	<i>196 days</i>	<i>Client approval of PDR (Phase 2)</i>
<i>Phase 4 – Lake Intake Pipe Repair & Disc Filter Improvements</i>	<i>159 days</i>	<i>Receipt of notice to proceed</i>
<i>Phase 5 – Bidding Assistance Package #1</i>	<i>42 days</i>	<i>Client approval of Bid Documents</i>
<i>Phase 6 – Bidding Assistance Package #2</i>	<i>42 days</i>	<i>Client approval of Bid Documents</i>

Notes:

- (1) Refer to attached detailed schedule
- (2) Time frames above are dependent upon Client and Agency review times.

COMPENSATION

The not-to-exceed cost for this Scope of Services, is \$244,355.41 based on the following breakdown:

Phase/Task	Fee/Cost	Basis
Phase 1 – Project Management	\$15,836	Lump Sum
Phase 2 – Site Investigation	\$17,668	Lump Sum
Phase 3 – Lake Storage Modifications Design & Permitting	\$76,026	Lump Sum
Phase 4 – Lake Intake Pipe Repair Design	\$59,981	Lump Sum
Phase 5 – Disc Filter Improvements Design & Permitting	\$6,326	Lump Sum
Phase 6 – Bidding Services	\$6,326	Lump Sum
Subtotal	\$182,163	
Phase 7 – Subconsultants/Reimbursables	\$62,192.41	Time & Expenses
TOTAL	\$244,355.41	

AUTHORIZATION:

The scope of services and compensation stated in this proposal are valid for a period of thirty (30) days from date of submission. If authorization to proceed is not received during this period, this proposal may be withdrawn or modified by MEAD & HUNT.

PURSUANT TO FLORIDA STATUTE SECTION 558.0035, AN
INDIVIDUAL EMPLOYEE OR AGENT OF MEAD & HUNT INC. MAY NOT
BE HELD INDIVIDUALLY LIABLE FOR NEGLIGENCE.

IF THE CONTRACTOR (MEAD & HUNT, INC.) HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S (MEAD & HUNT, INC.'s) DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT (PROPOSAL), CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT CITY HALL, CITY OF PORT ORANGE, 1000 CITY CENTER CIRCLE, PORT ORANGE, FL 32129, City Clerk, Robin Fenwick, (386) 506-5566, rffenwick@port-orange.org.



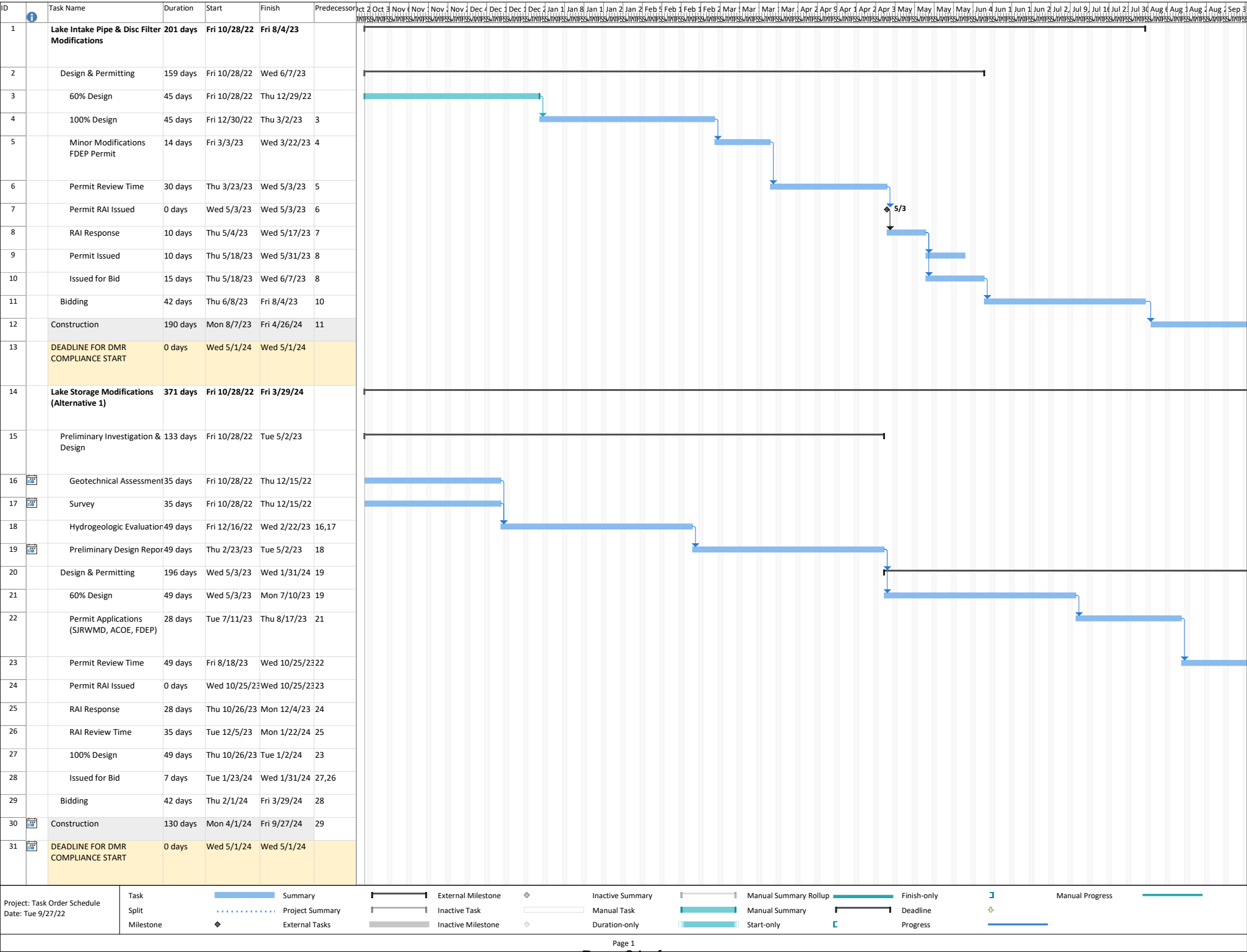
CITY OF PORT ORANGE
RECLAIMED WATER RESERVOIR IMPROVEMENTS
ESTIMATED MANHOUR SCHEDULE
January 4, 2023

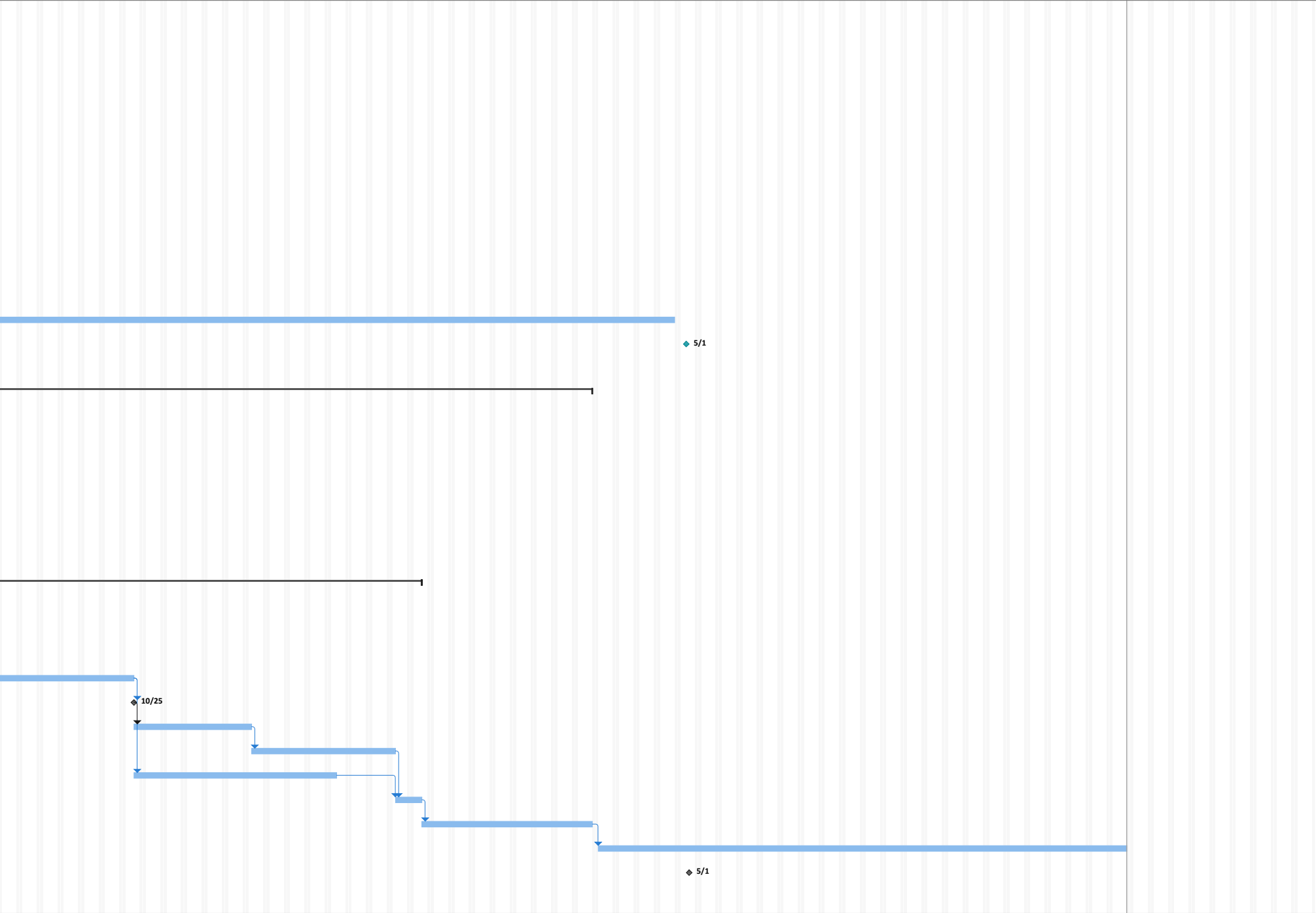
Phase	Description	Principal/Senior Client Manager	Senior Project Engineer	Engineer II	Senior Technician	Technician IV	Administrative Assistant	Total Task (\$)
	Hourly Rate	\$ 249.00	\$ 191.00	\$ 148.00	\$ 163.00	\$ 149.00	\$ 96.00	See Below
1	Project Management							
	Project Management (Task 1)		45				10	\$ 9,555.00
	Internal Kick-Off Meeting	1	2	2	1	1	1	\$ 1,335.00
	External Kick-Off Meeting	2	2	2			1	\$ 1,272.00
	Subconsultant Coordination (Task 2)	4	10				8	\$ 3,674.00
	Subtotals	7.0	59.0	4.0	1.0	1.0	20.0	\$ 15,836.00
2	Preliminary Design							
	Draft Preliminary Design Report	3	16	24	8	8	2	\$ 10,043.00
	Draft Preliminary Design Report Meeting	2	2	2			1	\$ 1,272.00
	Final Preliminary Design Report	3	6	16	8	4	2	\$ 6,353.00
	Subtotals	8.0	24.0	42.0	16.0	12.0	5.0	\$ 17,668.00
3	Lake Storage Modifications Design & Permitting							
	Prepare 60% documents (Task 1)	2	16	24		40	8	\$ 13,834.00
	60% QA/QC	8	2	6		12		\$ 5,050.00
	60% Review Meeting	2	2	2			2	\$ 1,368.00
	Prepare 100% documents (Task 2)	2	16	24		40	8	\$ 13,834.00
	60% Comment/Response Log		2	6			1	\$ 1,366.00
	100% QA/QC	6	2	6		8		\$ 3,956.00
	100% Review Meeting	2	2	2			2	\$ 1,368.00
	Prepare Bid Set documents (Task 3)	2	8	24		32	8	\$ 11,114.00
	100% Comment/Response Log		2	6			1	\$ 1,366.00
	Bid Set QA/QC	4	2	6		8		\$ 3,458.00
	FDEP Permit (Task 4)	1	4	6	12		2	\$ 4,049.00
	Pre-Application Meeting	1	2	1	4		1	\$ 1,527.00
	FDEP Permit RAI		2		3			\$ 871.00
	SJRWMD Permit (Task 5)	1	8	8	24	4	2	\$ 7,661.00
	Pre-Application Meeting	1	2	1	4			\$ 1,431.00
	SJRWMD Permit RAI		2		8			\$ 1,686.00
	ACOE Permit (Task 6)	1	2		4		1	\$ 1,379.00
	Pre-Application Meeting		2		2			\$ 708.00
	Subtotals	33.0	78.0	122.0	61.0	144.0	36.0	\$ 76,026.00
4	Lake Intake Pipe Repair & Disc Filter Improvements Design & Permitting							
	Prepare 60% documents (Task 1)	2	16	24		40	8	\$ 13,834.00
	60% QA/QC	8	2	6		12		\$ 5,050.00
	60% Review Meeting	2	2	2			2	\$ 1,368.00
	Prepare 100% documents (Task 2)	2	16	24		28	8	\$ 12,046.00
	60% Comment/Response Log		2	6			1	\$ 1,366.00
	100% QA/QC	4	2	6		6		\$ 3,160.00



CITY OF PORT ORANGE
RECLAIMED WATER RESERVOIR IMPROVEMENTS
ESTIMATED MANHOUR SCHEDULE
January 4, 2023

Phase	Description	Principal/Senior Client Manager	Senior Project Engineer	Engineer II	Senior Technician	Technician IV	Administrative Assistant	Total Task (\$)
	Hourly Rate	\$ 249.00	\$ 191.00	\$ 148.00	\$ 163.00	\$ 149.00	\$ 96.00	See Below
	100% Review Meeting	2	2	2			2	\$ 1,368.00
	Prepare Bid Set documents (Task 3)	2	8	24		28	8	\$ 10,518.00
	100% Comment/Response Log		2	6			1	\$ 1,366.00
	Bid Set QAQC	4	2	6		8		\$ 3,458.00
	Permitting (Task 4)	1	4	6	12		2	\$ 4,049.00
	Pre-Application Meeting	1	2	1	4		1	\$ 1,527.00
	FDEP Permit RAI		2		3			\$ 871.00
	Subtotals	28.0	62.0	113.0	19.0	122.0	33.0	\$ 59,981.00
5	Bidding Assistance Package #1							
	Attend pre-bid	2	4					\$ 1,262.00
	Address bidder's questions and prepare addenda	2	4	2			2	\$ 1,750.00
	Attend bid opening		2	2				\$ 678.00
	Evaluate bids, bid tab, and prepare award recommendation ltr		4	12			1	\$ 2,636.00
	Subtotals	4.0	14.0	16.0	0.0	0.0	3.0	\$ 6,326.00
6	Bidding Assistance Package #2							
	Attend pre-bid	2	4					\$ 1,262.00
	Address bidder's questions and prepare addenda	2	4	2			2	\$ 1,750.00
	Attend bid opening		2	2				\$ 678.00
	Evaluate bids, bid tab, and prepare award recommendation ltr		4	12			1	\$ 2,636.00
	Subtotals	4.0	14.0	16.0	0.0	0.0	3.0	\$ 6,326.00
	TOTAL ALL TASKS	84.0	251.0	313.0	97.0	279.0	100.0	\$ 182,163.00
7	Subconsultant/Reimbursables Breakdown:							
	Description	Amount						
	Geotech Allowance	\$ 10,000.00						
	Survey Allowance	\$ 16,692.41						
	Hydrogeologic Allowance	\$ 23,000.00						
	Permitting Coordination Allowance	\$ 12,000.00						
	Printing/Reproduction/Postage	\$ 500.00						
	Total	\$ 62,192.41						
							Lump Sum Total	\$ 182,163.00
							Subs/Reimbursables	\$ 62,192.41
							GRAND TOTAL	\$ 244,355.41





Project: Task Order Schedule Date: Tue 9/27/22	Task	Summary	External Milestone	Inactive Summary	Manual Summary Rollup	Finish-only	Manual Progress
	Split	Project Summary	Inactive Task	Manual Task	Manual Summary	Deadline	Progress
	Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only		



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L & S Diversified

Surveying and Mapping | Subsurface Utility Engineering | LiDAR

September 20, 2022

**Tonya Sonier, PE
Mead & Hunt
4401 Eastport Parkway
Port Orange, FL 32127**

Subject: Port Orange Lake Intake and Storage

Dear Tonya,

We appreciate your consideration of L&S Diversified, LLC to provide professional surveying services for the above referenced project. Below we have outlined a proposed schedule of services and the associated fees for this project.

SCOPE OF SERVICES

- Location and survey of the existing lake intake pipe (we had discussed this previously, see attached email, and as shown on Sheet 8 of 25 of Record Drawing PDF)
- Lake topo elevations – top of berm and staging (see sheet 3 of 25 of Record Drawing PDF)
 - Pipeline route and along side between Lake A and Lake B (sheet 14 of 25 of Record Drawing PDF)
- Topo around the existing disc filter and
- Structure features (invert elevations and top of structure):
 - Drainage manholes between Lake A and Lake B (sheet 14 of 25 of Record Drawing PDF)
 - Drainage manholes to Wetlands (sheet 8 of 25 of Record Drawing PDF)
 - Spillway / Control Porint #1 (sheet 8 of 25 of Record Drawing PDF)
 - Intake/Outfall Structure (sheet 8 and 9 of 25 of Record Drawing PDF)
 - Mixer Slab, Disc Filter, 2 Drainage Manholes, and lift station wetwell (Sheet 5 of 25 of Record Drawing PDF)
- Additional safety measures will be followed per Florida Fish and Wildlife Conservation Commission (FWC) concerning the known presence of alligators in the area.

Establish Survey Control

L & S Diversified shall establish horizontal and vertical control monuments to facilitate site engineering. The monuments shall be established so that there is clear line of site between them. Horizontal coordinates shall be referenced to Florida State Plane, North American Datum of 1983 (NAD83). Elevations shall be referenced to North American Vertical Datum of 1988 (NAVD88).

L & S Diversified, LLC

Principal
Sherry Lee Manor, PSM

489 SR 436, Suite 117
Casselberry, FL 32707
o 407.681.3836

www.LSsurveyor.com

Page 1 of 4



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Topographic and Hydrographic Survey

L & S Diversified will provide all labor, equipment and resources necessary to research, locate and/or establish the required site control and perform a topographic and/or hydrographic survey.

Topographic Survey: RTK/GPS or conventional data acquisition at a **50-foot grid** within the project limits, **plus 10 feet outside project limits**; location and elevation of existing improvements and visible above ground utilities; and setting at least 4 site bench marks to facilitate engineering for the project site.

Hydrographic Survey: single beam or lead line data acquisition at **50-foot cross** sections inside the project limits, **plus 10 feet outside project limits**. Sufficient data will be acquired to determine the depth and topography of the near shore lake bottom. It is anticipated that during the hydrographic survey, enough of the intake structure will be above the surface of the bottom of the pond that the hydrographic gear will locate the intake structure. Should sediment be covering the intake structure, other means will need to be explored to locate the intake structure.

The topographic & hydrographic survey will be displayed at one foot contours and will be based on the North American Vertical Datum (NAVD) of 1988.

The Topographic Survey will be prepared in accordance with the State of Florida Standards of Practice Chapter 5J-17, Florida Administrative Code, as set forth by the Board of Professional Surveyors and Mappers, pursuant to Section 472.027, Florida Statutes.

L&S Diversified will follow the guidelines for collecting field data as outlined in the US Army Corps of Engineers manual EM 1 110-2-1003 – Engineering and Design, Hydrographic Surveying. Data acquisition will conform to the horizontal and vertical precision standards as outlined in the Federal Geographic Data Committee, Geospatial Positioning Standards – PART 4: Standards for A/E/C and Facility Management (FGDC-STD-007.4-2002).

Deliverables

Survey in pdf and dwg format, signed and sealed hardcopies as required by Client are to be billed at cost.

L & S Diversified, LLC

Principal
Sherry Lee Manor, PSM

489 SR 436, Suite 117
Casselberry, FL 32707
o 407.681.3836

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Schedule

L & S Diversified will begin the Survey on the subject property within 5 working days after receipt of your executed Notice to Proceed (NTP). This does not apply if extensive title work is involved, extensive certification requirements are needed, or if an ALTA/ACSM Survey is required. Proposed fee and schedule shown hereon is valid for up to 45 days from the date of receipt. We prefer at least 48 hours of notice for scheduling of a field crew.

Description	Duration
Field Data Collection	2 Weeks
Office Drafting	1 Weeks
QA/QC	1 Week
Estimated Delivery of Survey from Notice to Proceed	4 Weeks

Additional Services

If the client desires to change or expand upon these proposed services, an additional fee shall be negotiated. This renegotiation shall be accomplished prior to commencing the additional work, and may be necessary for any of the following services which are not a part of this contract:

Locating and/or flagging Flood Zone Line or Normal High Water Line (NHWL), tidal records, or locating 'O' or specific elevations, Research and ordering additional Maps, Records or Materials necessary for completing these specified tasks; client-imposed requirements not covered herein; Additional Certifications or Affidavits not specified herein; Elevation Certifications; Wetland Delineation or Location; sub-surface Excavation or Underground Utility Location; Extensive Title Review and Plotting of Easements; Offsite Surveys or Sketches; Vertical Topographic information unless outlined in this proposal; Requests by Third Parties (Buyer's Attorney, Seller's Attorney, Lender or Lender's Counsel, Real Estate Agents, Title Company Personnel, etc.) for additions, deletions or revisions to be made to the survey drawings or maps before or after initial submittal to client; Additional Meetings and Errands not covered herein which are necessary to complete these specified tasks; Client-Authorized on-site instruction given to field crew for extra field work not covered herein; Client-approved overtime; Additional ALTA Table A Items.

Reimbursables such as overnight mailings, sending electronic files, copying charges, blueprinting costs, plotting of extra drawings not covered herein, delivery, shipping, or rush charges, etc. will be billed as an Extra cost on a Time, Materials and Expense basis.

It may be necessary for the Project Manager to call the client to receive verification and authorization for Extra Costs stated above in the preceding paragraph, and may further require the client to sign an Additional Work Authorization Form for any out-of-scope requests.

L & S Diversified, LLC
Principal
Sherry Lee Manor, PSM

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Casselberry, FL 32707
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BETTER
STRONGER**

All public entity or jurisdictional agency fees are to be paid directly by the client prior to obtaining approvals or permits. These fees include, but are not limited to, platting, impact, re-zoning, permitting, review and application fees. L & S Diversified has no control over the procedures of public entities or jurisdictional agencies, and therefore, cannot guarantee timing and outcome of permits and entitlements related to this site/project.

Thank you for this opportunity and we look forward to working with you on this exciting new project. Should you have any questions, please do not hesitate to call.

Sincerely,
L & S Diversified, LLC

Brad Alexander, PE, PSM
Vice-President

September 20, 2022

L & S Diversified, LLC

Principal
Sherry Lee Manor, PSM

489 SR 436, Suite 117
Casselberry, FL 32707
o 407.681.3836

www.LSsurveyor.com

L&S Diversified	Service Items 101-117																
	Survey Crew (1-2)		Survey Crew (3)		SUE Crew (1-2)		SUE Crew (3)										
	Rates		\$139.10		\$180.48		\$144.83		\$186.21								
			Hours		Hours		Hours		Hours								
Service Item																	
101 Survey Control		12.00								12.00		\$1,669.20					
104 Topographic Survey		32.00								32.00		\$4,451.20					
109 Hydrographic				16.00						16.00		\$2,887.68					
		44.00		16.00		0.00		0.00		60.00		\$9,008.08					
Service Items 201-220																	
	Mapping Technician		PSM		Survey PM		Survey Coord		SUE Coord		SUE PM						
	Rates		\$91.50		\$144.83		\$134.65		\$73.62		\$84.48		\$134.65				
			Hours		Hours		Hours		Hours		Hours		Hours				
													Subtotal - Hours		Subtotal - Fee		
Service Item																	
201 Survey Control		6.00		1.00		2.00		1.00				10.00		\$1,036.75			
206 Topographic Survey		16.00		4.00		2.00		4.00				26.00		\$2,607.10			
211 Hydrographic		24.00		8.00		4.00		2.00				38.00		\$4,040.48			
		46.00		13.00		8.00		7.00		0.00		0.00		74.00		\$7,684.33	
Reimbursables																	
		Quantity								Rate							
Plotting (Bond Paper) 24" x 36"												\$3.50		\$0.00			
Plotting (Bond Paper) 11"x 17"												\$2.50		\$0.00			
Plotting (Bond Paper) Other												\$1.50		\$0.00			
Color Printing/Copying 11"x 17"												\$0.75		\$0.00			
Color Printing/Copy 8 1/2" x14"												\$0.65		\$0.00			
Color Printing/Copy 8 1/2" x11"												\$0.60		\$0.00			
B&W Print/Copy 11" x 17"												\$0.70		\$0.00			
B&W Print/Copy 8 1/2" x 14"												\$0.60		\$0.00			
B&W Print/Copy 8 /12" x 11"												\$0.55		\$0.00			
USB														\$0.00			
Recording Fee														\$0.00			
Permits														\$0.00			
Maintenance of Traffic														\$0.00			
												\$0.00					
Total Fee												\$16,692.41					

Plant Topo

proposed topo limits for plant structures



Intake and Outfall Topo

proposed topo limits for Intake and Outfall Structures



Crossover Pipe

proposed topo limits 50' each side of
existing crossover pipe between ponds A & B

Pond A

Pond B



■ Never feed alligators – it's dangerous and illegal. When fed, alligators can overcome their natural wariness and learn to associate people with food. When this happens, some of these alligators have to be removed and killed.

■ Dispose of fish scraps in garbage cans at boat ramps and fish camps. Do not throw them into the water. Although you are not intentionally feeding alligators when you do this, the result can be the same.

■ Seek immediate medical attention if you are bitten by an alligator. Alligator bites can result in serious infections.

■ Observe and photograph alligators only from a distance. Remember, they're an important part of Florida's natural history as well as an integral component of aquatic ecosystems.



Janice Plain

To report nuisance alligators call
866-FWC-GATOR (866-392-4286).



MyFWC.com/Alligator



Tim Donovan, FWC

Call 866-FWC-GATOR (392-4286) to report nuisance alligators.

A Guide to Living with **Alligators**



Jamie Feddersen





Lizabeth West, FWC

Do not swim outside of posted swimming areas or in waters that may be inhabited by alligators.

Living with Alligators

In Florida, the growing number of people living and recreating near water has led to a steady rise in the number of alligator-related complaints. The majority of these complaints relate to alligators being where they simply aren't wanted. Because of these complaints, the Florida Fish and Wildlife Conservation Commission's Statewide Nuisance Alligator Program permits the killing of approximately 7,000 nuisance alligators each year. Using this approach, and through increased public awareness, the rate of alligator bites on people has remained constant despite the increased potential for alligator-human interactions as Florida's human population has grown.

Alligators are an important part of Florida's landscape and play a valuable role in the ecology of our state's wetlands. Alligators are predators and help keep other aquatic animal populations in balance. A better understanding of the facts and information presented in this brochure will help ensure that people and alligators can continue to coexist.

Visit MyFWC.com/Gators for more information about alligators and the latest nuisance alligator program statistics.



Tim Donovan, FWC

Alligators and People

Alligators are a fundamental part of Florida's wetlands, swamps, rivers and lakes, and they are found in all 67 counties. Florida continues to experience human population growth. Many new residents seek waterfront homes, resulting in increased interactions between people and alligators.

Although most Floridians understand that we have alligators living in our state, the potential for conflict exists. Because of their predatory nature, alligators may target pets and livestock as prey. Unfortunately, people also are occasionally bitten. Since 1948, Florida has averaged about five unprovoked bites per year. During that period, a little more than 300 unprovoked bites to people have been documented in Florida, with 22 resulting in deaths.

In the past 10 years, the Florida Fish and Wildlife Conservation Commission has received an average of nearly 16,000 alligator-related complaints per year. Most of these complaints deal with alligators occurring in places such as backyard ponds, canals, ditches and streams, but other conflicts occur when alligators wander into garages, swimming pools and golf course ponds. Sometimes, alligators come out of the water to bask in the sun or move between wetlands. In many cases, if left alone, these alligators will eventually move on to areas away from people.

Safety Tips

■ Generally, alligators less than four feet in length are not large enough to be dangerous unless handled. However, if you encounter any alligator that you believe poses a threat to people, pets or property,

call the Nuisance Alligator Hotline at 866-FWC-GATOR (866-392-4286). Please be aware, nuisance alligators are killed, not relocated.

- Be aware of the possibility of alligators when you are in or near fresh or brackish water. Bites may occur when people do not pay close enough attention to their surroundings when working or recreating near water.
- Do not swim outside of posted swimming areas or in waters that might be inhabited by large alligators.
- Alligators are most active between dusk and dawn. Therefore, avoid swimming at night.
- Dogs and cats are similar in size to the natural prey of alligators. Don't allow pets to swim, exercise or drink in or near waters that may contain alligators. Dogs often attract an alligator's interest, so do not swim with your dog.
- Leave alligators alone. State law prohibits killing, harassing or possessing alligators. Handling even small alligators can result in injury.



Tim Donovan, FWC

A young alligator wanders onto a porch in a residential neighborhood.



September 21, 2022
Project No.: GPGW-11-0045

TO: Quentin L Hampton Associates, Inc.
P.O. Drawer 290247
Port Orange, FL 32129-0247

Attention: Tonya Sonier, P.E.

Subject: Proposal: Hydrogeologic Evaluation and Water Balance Analysis
Reclaimed Water Basins Stage Change & Wetland Impact Assessment
City of Port Orange, Volusia County, Florida

Dear Ms. Sonier:

Per your request, Andreyev Engineering, Inc. (AEI) presents this proposal to conduct additional hydrogeologic analysis and groundwater modeling for the reclaimed water storage basins and the adjacent wetland system (Wetland 2005) located west of Lake A. The additional analysis and modeling will be to quantify the potential wetland impacts of the proposed raised operational stages at the reclaimed water storage and recovery basins.

Purpose and Scope of Study

The purpose of this study will be to re-assess the feasibility of increasing the high water levels of the existing reclaimed water storage and recovery basins operated by the City of Port Orange and to quantify the potential hydrologic impacts of the proposed operational changes to the adjacent wetland system. The adjacent wetland, Wetland 2005, has a controlled outfall and the study includes evaluation of potential increase of discharge rate from the wetland due to the operational change of the storage basins during a design storm event.

To conduct this hydrologic re-evaluation and water balance analysis, AEI will carry out the following scope of work:

1. Reviewed previous hydrogeologic investigations and modeling data completed in 2011 for the reclaimed water storage and recovery basins.
2. Review the previous analysis and current operational data to determine if verification of the model calibration is needed.
3. Update and re-calibrate the models, if necessary.
4. The MODFLOW model will be utilized to characterize the lateral flow between the storage basins and the wetland. Most likely the previous models developed in 2011 are outdated and new models will need to be set up for this purpose. The

models will be set up in a cross sectional form to allow calibration of the models to the observed gradients across the berm. The calibrated model will then be used to calculate the lateral seepage of water per lineal foot of berm and per foot of head change.

5. Once the relationship of lateral flow per lineal foot of berm and per foot of head is developed a water balance analysis will be conducted for the adjacent wetland system. The water balance will be conducted for the average year wet season period spanning June 1 through September 30.
6. A series of model runs will be conducted by varying the water level in the lakes and calculating the flow of groundwater to the wetland per lineal foot of berm and per foot of head.
7. Utilizing the stage-discharge relationship data and the length of the basin berms facing the wetland of concern the total contribution of water to the wetland system will be calculated for the revised average stage elevation of Lake A.
8. To assess the potential hydrologic impact to a wetland system in its simplest form is to calculate the total amount of additional water that would be contributed by the revised operational stages of the lakes over the wet season period and determine its maximum potential rise of water level in the wetland.
9. For the simplest form of impact assessment, the potential hydrologic impact to the wetland will be calculated as follows:
 - Calculate the total amount of water flow to the wetland during the normal wet season period
 - Calculate the total area of the wetland receiving the groundwater inflow from Lake A.
 - Convert the total amount of groundwater flow from the lakes to the wetland duration of the wet season (June through September) to feet of stage and to flow rate.
 - Evaluate the calculated rise of water level in the wetland for potential impacts. Generally, a potential wetland impact can occur if the additional water inflow results in a rise of wetland level more than 0.5 feet.
 - Calculate the additional inflow and overflow rates for the wetland to be included in the routing flow modeling by others, if necessary.

Preparation of Report & Cost Estimate

At the completion of our evaluation, modeling and wetland impact assessment, we will provide the following services:

- Prepare a summary hydrogeologic report presenting the evaluation and groundwater modeling work, including the updated groundwater models, revised lateral flow calculations, wetland impact modeling and wetland impact assessment due to increase operational water levels in the reclaimed water storage and recovery basins.
- Attend meetings and presentations during and after the modeling efforts, as needed.
- Respond to comments and revisions, as needed. Revise and update the final report, as needed.

The estimated budget for our services is summarized below:

Task A – Review, Evaluation, Modeling and Impact Assessment.....	\$15,000.00
Task B – Presentations of Results and Preparation of Report.....	<u>\$8,000.00</u>
TOTAL ESTIMATED FEE	\$ 23,000.00

We trust that this proposal includes all the analyses and modeling needed for your final assessment and consent order documentation purposes. If you have any questions or comments concerning the contents of this proposal, please do not hesitate to contact our office at 407-330-7763.

Sincerely,
Andreyev Engineering, Inc.



Nicolas E. Andreyev, P.E.
President





City of Port Orange Public Works and Utilities Department

TO: Wayne Clark, City Manager

THRU: Lynn Stevens, Public Works and Utilities Director
Julia Wiggins, Public Works and Utilities Business Manager

FROM: Junos Reed P.E., Engineering and Construction Manager

DATE: January 3, 2023

SUBJECT: **Mead & Hunt –Task Authorization No. 3 under the Master Contract for Professional Engineering Services for Public Utilities and Environmental Services CA7761** - Consent Order OCG No. 21-0734 Compliance Plan Phase III Reclaimed Water Reservoir Improvements

REQUEST:

The Public Works & Utilities Department is requesting approval of Task Authorization No 3 under the Master Contract for Professional Engineering services with Mead & Hunt for the Consent Order OCG No. 21-0734 Compliance Plan Phase III in the amount not to exceed \$244,355.41.

PURPOSE:

The purpose of this Task Authorization is for Mead & Hunt to assist City Staff with the preparation of the required compliance plan associated with Consent Order OGG No. 21-0734 issued by the Florida Department of Environmental Protection (FDEP).

CONSIDERATION:

On August 25, 2021, the FDEP issued a Consent Order (OCG Case No. 21-0734) to the City identifying two violations of the Wastewater Permit associated with the operation of the City of Port Orange Water Reclamation Facility (WRF). One of the violations was for exceeding the Total Suspended Solids (TSS) limits at the reclaimed lakes discharge point identified as EFD-2 for D-002 in the permit. The other violation was for exceeding the annual average discharge flow of 0.999 million Gallons per Day (MGD) for surface water discharge, which is the sum of discharges from D-001 (River Discharge) and D-002 (Wetlands at Reclaimed Lakes Discharge). Mead & Hunt completed an evaluation of the effluent disposal system and identified the cause(s) of the violations listed in the Consent Order as part of Phase I of the Compliance Plan. Additionally, Mead & Hunt prepared an Engineering Report which included a scope of work and schedule for corrective actions

submitted to FDEP. To satisfy the violation for exceeding the permitted annual average discharge, a spray field located near the reclaimed water reservoirs was proposed. The spray field location was selected due to its proximity to existing reclaimed water infrastructure. As part of determining how much disposal capacity the spray field would have, soil borings were done to determine the soil classifications and the depth to groundwater. Preliminary geotechnical results reveal the proposed spray field to have a high ground water table is unsuitable to address the flow violations. Due to these unfavorable conditions, the submitted Phase I Compliance Plan was revised and resubmitted to the Florida Department of Environmental Protection (FDEP).

Phase II of the Compliance plan included recommending alternatives to reduce the annual average flow rate for D-001. These alternatives include the construction of a new or expanded reservoir for additional wet weather storage, a new ASR well located on or near the Water Reclamation Facility on Oak St and increase the volume of the existing reclaimed water reservoirs by raising the existing berms and overflow elevations. Mead & Hunt prepared the requisite level of design of the selected alternative to satisfy and address the requirements of the FDEP Consent Order.

Phase III of the Compliance plan as described above is for the design and permitting of the selected alternative from Phase II. Based on meetings with FDEP staff along with the recommendations of Mead & Hunt, the following improvements will be designed as part of this phase.

- Investigation and repair of the existing suction line in Lake A that feeds the existing disk filter
- Raising the berm height of Lake B and Lake A to provide additional wet weather reclaimed storage.
- Rehabilitation, relocation, and installation of the disk filter from the Water Reclamation Facility (WRF) to the reclaimed lakes to provide additional filtration capacity.
- Rehabilitate the existing disk filter at the Reclaimed Reservoir site. Damage to the existing filter was caused by the lake suction intake pulling in sand from the lake bottom and then being pumped through the filter.

These proposed improvements to the reclaimed reservoirs, once constructed, will satisfy both violations of the Consent Order.

FUNDING:

Fund: 403

Name: Water and Sewer R&R

Cost Center: Water and Sewer

Program: Wastewater Treatment

Spend Category: Sewage - Capital

Current Budget: \$284,261

Actual: \$244,355.41

RECOMMENDATION:

The Public Works & Utilities Department recommends approval of Task Authorization No 3 under the Master Contract for Professional Engineering services with Mead & Hunt for the Consent Order OGC No. 21-0734 Compliance Plan Phase III in the amount not to exceed \$244,355.41

ANTICIPATED SCHEDULE:

- a) Council Approval Date: February 7, 2023
- b) Mead & Hunt will begin design and permitting upon issuance of the NTP with 600 days to complete.

ATTACHMENTS:

- 1. Mead & Hunt Proposal for the FDEP Consent Order Compliance Plan Phase III Reclaimed Water Reservoir Improvements.
- 2. Executed Consent Order, OGC No. 21-073
- 3. FDEP Consent Order Corrective Actions Report Prepared by Mead & Hunt



January 4, 2023

Lynn Stevens
Public Works and Utilities Director
City of Port Orange
1395 Dunlawton Avenue
Port Orange, FL 32129

Email: lstevens@port-orange.org
Hard Copy Mailed Only on Request

Subject: Reclaimed Water Reservoir Improvements – Scope and Fee Proposal

Dear Ms. Stevens,

Mead & Hunt is pleased to provide this engineering scope of services and a fee estimate for the above referenced project. This project is in response to the required actions set forth by the Compliance Plan submitted to the Florida Department of Environmental Protection's (FDEP) Consent Order (OGC No. 21-0734) and the recent schedule extension request. The project will include design documents for the following:

- Investigation and repair of the existing suction line in Lake A that discharges downstream into the permitted wetlands
- Raising the berm height of Lake B and operation of Lake B and Lake A at a higher water level to provide additional reclaimed water storage
- Rehabilitation, relocation, and installation of the existing Water Reclamation Facility (WRF) disc filter.
- Rehabilitation of the existing wetland's discharge disc filter.

If you have any questions or require additional information, please contact me.

Sincerely,
MEAD & HUNT, Inc.

Brad Blais, P.E.
Vice President/Client Manager

Tonya Sonier, P.E.
Project Manager

Enclosure – Scope of Services and Fee Estimate

cc: Chris Wall, Junos Reed, Steve Parnell

**CITY OF PORT ORANGE
SCOPE OF SERVICES
FOR
RECLAIMED WATER RESERVOIR IMPROVEMENTS**

This Task Order is in conformance with the Master Contract for Engineering Services RFSQ 21-03 Professional Engineering Services for Public Works, Utilities, and Environmental Services Dated January 18, 2022 between the City of Port Orange (CITY) and Mead & Hunt, Inc. (MEAD & HUNT) and is referred to herein as the Contract.

GENERAL

The Florida Department of Environmental Protection (FDEP) has reviewed and approved the City's revised Corrective Action Plan submitted in August 2022. The scope of services herein is detailed below address the following corrective actions per Consent Order OGC No. 21-0734:

- D-001 Flow Violation: the City currently stores treated reclaimed water in Lake A and Lake B. To provide additional reclaimed water storage, the Lake B reservoir will be evaluated and designed with higher berms to match the Lake A berm elevation and both lakes are proposed to operate with 1-ft of additional staging. This is anticipated to require extensive permitting and modification of the existing control and drainage structures to accommodate the new hydraulic profile.
- EFD-2 TSS Violation: when discharging to the nearby wetlands, the City withdraws water from Lake B and sends it through an existing disc filter. The City recently rehabilitated the existing disc filter. After rehabilitation, operation of the equipment resulted in the filter bound with sand. The sand is suspected to enter the filters from a physical defect in the existing Lake intake pipe. The design documents will detail dewatering and excavation of the existing intake pipe to allow visual inspection and proceed with repair.

In addition to the intake repair, design documents will include the rehabilitation, relocation and installation of the existing City owned disc filter (currently that the R. Dwayne Huffman WRF) to the existing Reclaimed Water Reservoir. The existing wetland's discharge disc filter will also be included in the rehabilitation design documents.

The design documents will be provided in

- Package 1: Raising the berm height of Lake B and operation of Lake B and Lake A at a higher water level too provide additional reclaimed water storage
- Package 2: Investigation and repair of the Lake A suction line; disc filter relocation; disc filters rehabilitation

SCOPE OF SERVICES

After receipt of authorization to proceed, MEAD & HUNT will provide the following services:

PHASE 1 – PROJECT MANAGEMENT

Task 1 - Project Management

MEAD & HUNT'S Project Manager (PM) will initiate the project and manage the budget and schedule, manage project staffing, review subconsultant invoices, manage project coordination, and schedule quality management processes for work products. The PM will monitor progress throughout the project and prepare monthly invoices for the CITY. It is assumed that these services will cover the estimated 13-month project design & bidding.

MEAD & HUNT will conduct a project kick-off meeting with the project team and CITY staff to review project goals, scope of work, project schedule and administrative issues. Following the meeting, MEAD & HUNT will prepare a written summary of the project meeting and distribute to the attendees.

MEAD & HUNT will implement a quality assurance and control process, which includes:

Independent technical review of alternatives developed and evaluated, and recommendations made by the project team. Reviews will include evaluations of constructability, performance, and conflicts.

Independent review of the project technical work products before its submission to the CITY.

Deliverables – Project Management

- Kick-Off Meeting Agenda and Summary
- Monthly Invoices

Task 2 – Subconsultant Coordination

Geotechnical: MEAD & HUNT will obtain the services of a geotechnical subconsultant for berm stability analysis. The geotechnical costs will be billed in the Subconsultants and Reimbursable section. MEAD & HUNT coordination of the geotechnical efforts and administration of the subconsultants contract are included herein.

Survey: MEAD & HUNT will obtain the services of a licensed surveyor to conduct a site survey including the existing drainage and outfall structures, Lake A and B berms, and the Lake A intake pipe. The surveyor costs will be billed in the Subconsultants and Reimbursable section. MEAD & HUNT coordination of the survey efforts and administration of the subconsultants contract are included herein.

Hydrogeologic Evaluation: MEAD & HUNT will obtain the services of a licensed hydrogeologist to conduct a hydrogeologic evaluation and water balance analysis. The hydrogeologist costs will be billed in the Subconsultants and Reimbursable section. MEAD & HUNT coordination of the hydrogeologist efforts and administration of the subconsultants contract are included herein.

Permitting: MEAD & HUNT will obtain the services of Biological Consulting Services, Inc. (BCS) for permitting coordination with SJRWMD, ACOE, and FDEP. BCS's costs will be billed in the Subconsultants and Reimbursable section. MEAD & HUNT coordination of BCS's efforts and administration of the subconsultants contract are included herein.

PHASE 2 – PRELIMINARY DESIGN

Task 1 - Preliminary Design Report – Lake Storage Modifications

MEAD & HUNT will prepare a draft Preliminary Design Report (PDR) evaluating the feasibility and wetland impacts of raising the Lake B berm height to match Lake A's berm height and for both Lakes to operate at a higher high-water level (HWL), providing additional reclaimed water storage. The PDR will include a preliminary engineer's opinion of probable construction cost (EOPCC) and confirmation of project permitting requirements.

A draft PDR will be submitted to the CITY for review and comment. It is assumed the CITY will conduct their review in a two-week period and a meeting will be held at the end of the CITY review.

MEAD & HUNT will schedule and attend a draft PDR review meeting to review the CITY comments on the draft PDR. Comments received will be incorporated into the final PDR and subsequent design documents.

Deliverables – Preliminary Design

- Draft Preliminary Design Report
- Preliminary Design Review Meeting Summary
- Final Preliminary Design Report

PHASE 3 – LAKE STORAGE MODIFICATIONS DESIGN & PERMITTING

Task 1 – 60% Design Development

MEAD & HUNT will develop 60% Drawings and specifications that reflect the proposed improvements. MEAD & HUNT will provide a 60% engineer's opinion of probable construction cost (EOPCC).

Ms. Lynn Stevens

January 4, 2023

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The 60% submittal package will be submitted to the CITY for review and comment. The submittal will include the items shown in the deliverable section below. It is assumed the CITY will conduct their review in a two-week period, and a meeting will be held at the end of the CITY's review.

MEAD & HUNT will schedule and attend a 60% design review meeting to review the CITY's comments on the design drawings and specifications. Comments received will be incorporated into the 100% design documents.

Deliverables – 60% Design

- 60% Design Drawings
- 60% Specifications
- 60% EOPCC

Task 2 – 100% Design Development

MEAD & HUNT will develop 100% drawings and specifications that reflect the comments received at the 60% Design review meeting. The CITY's standard front-end contract documents will be used and coordinated with MEAD & HUNT's technical specifications. MEAD & HUNT will provide a 90% engineer's opinion of probable construction cost (EOPCC).

The 100% submittal package will be submitted to the CITY for review and comment. The submittal will include the items shown in the deliverable section below. A comment/response log will be included with the submittal to document how the CITY's comments from the 60% review meeting are addressed in the 100% submittal. It is assumed the CITY will conduct their review in a two-week period, and a meeting will be held at the end of the CITY's review.

MEAD & HUNT will schedule and attend a 100% design review meeting to review the CITY's comments on the design drawings and specifications.

Deliverables – 100% Design

- 100% Design Drawings
- 100% Specifications
- 100% EOPCC
- 60% Comment/Response Log

Task 3 – Issued for Bid Documents

Ms. Lynn Stevens

January 4, 2023

Page 6

Based on the CITY's 100% review comments and discussions at the 100% review meeting, MEAD & HUNT will advance the 100% design drawings and specifications to Bid Documents. MEAD & HUNT will prepare and submit bid documents including bid number, pre-bid date and time, and other pertinent information to create a Bid Set of the plans and specifications.

Deliverables – 100% Design

- Issued for Bid Drawings
- Issued for Bid Specifications
- 100% Comment/Response Log

Task 4 - FDEP Permit

MEAD & HUNT will attend up to one (1) pre-application meeting with Florida Department of Environmental Protection (FDEP) to discuss permitting requirements. MEAD & HUNT will prepare an agenda and meeting summary for the meeting. After the pre-application meeting, any necessary revisions to the design recommendations will be reviewed with the CITY and incorporated into the various design components.

MEAD & HUNT will prepare and submit the permit application in accordance with the specific permit requirements and input from the pre-application meeting. Permit applications will be submitted after the 60% design has been reviewed and accepted by the CITY. The CITY will receive one (1) electronic copy of final applications and permits. Permit fees will be paid by the CITY.

MEAD & HUNT will respond to up to one (1) Request for Additional Information (RAI) as part of the permit application process. Follow up phone calls or meetings with the regulators to assist with the responses are included in the task. Responses will be limited to clarifications related to the submittals in accordance with the documented permit requirements or those identified in the pre-application meeting. MEAD & HUNT will respond to RAI's in a timely manner to minimize any potential schedule impacts.

Deliverables – FDEP Permitting

- Final Permit application and final permit

Task 5 - SJRWMD Permit

MEAD & HUNT will attend up to one (1) pre-application meeting with Saint John's River Water Management District (SJRWMD) to discuss permitting requirements. MEAD & HUNT will prepare an agenda and meeting summary for the meeting. After the pre-application meeting, any necessary revisions

to the design recommendations will be reviewed with the CITY and incorporated into the various design components.

MEAD & HUNT will prepare and submit the permit application in accordance with the specific permit requirements and input from the pre-application meeting. Permit applications will be submitted after the 60% design has been reviewed and accepted by the CITY. The CITY will receive one (1) electronic copy of final applications and permits. Permit fees will be paid by the CITY.

MEAD & HUNT will respond to up to one (1) Request for Additional Information (RAI) as part of the permit application process. Follow up phone calls or meetings with the regulators to assist with the responses are included in the task. Responses will be limited to clarifications related to the submittals in accordance with the documented permit requirements or those identified in the pre-application meeting. MEAD & HUNT will respond to RAI's in a timely manner to minimize any potential schedule impacts.

Deliverables – SJRWMD Permitting

- Final SJRWMD Permit application and final permit

Task 6 - ACOE Permit

MEAD & HUNT will attend up to one (1) pre-application meeting with the Army Corp. of Engineers (ACOE) to discuss permitting requirements. MEAD & HUNT will prepare an agenda and meeting summary for the meeting. After the pre-application meeting, any necessary revisions to the design recommendations will be reviewed with the CITY and incorporated into the various design components.

MEAD & HUNT does not anticipate permitting requirements through the ACOE. Pre-application meeting will serve as verification of permitting requirements and ensure communication of all original permitting regulatory bodies.

PHASE 4 – LAKE INTAKE PIPE REPAIR & DISC FILTER IMPROVEMENTS DESIGN & PERMITTING

Task 1 – 60% Design Development

MEAD & HUNT will develop 60% Drawings and specifications that reflect the proposed improvements. MEAD & HUNT will provide a 60% engineer's opinion of probable construction cost (EOPCC).

The 60% submittal package will be submitted to the CITY for review and comment. The submittal will include the items shown in the deliverable section below. It is assumed the CITY will conduct their review in a two-week period, and a meeting will be held at the end of the CITY's review.

MEAD & HUNT will schedule and attend a 60% design review meeting to review the CITY's comments on the design drawings and specifications. Comments received will be incorporated into the 100% design documents.

Deliverables – 60% Design

- 60% Design Drawings
- 60% Specifications
- 60% EOPCC

Task 2 – 100% Design Development

MEAD & HUNT will develop 100% drawings and specifications that reflect the comments received at the 60% Design review meeting. The CITY's standard front-end contract documents will be used and coordinated with MEAD & HUNT's technical specifications. MEAD & HUNT will provide a 90% engineer's opinion of probable construction cost (EOPCC).

The 100% submittal package will be submitted to the CITY for review and comment. The submittal will include the items shown in the deliverable section below. A comment/response log will be included with the submittal to document how the CITY's comments from the 60% review meeting are addressed in the 100% submittal. It is assumed the CITY will conduct their review in a two-week period, and a meeting will be held at the end of the CITY's review.

MEAD & HUNT will schedule and attend a 100% design review meeting to review the CITY's comments on the design drawings and specifications.

Deliverables – 100% Design

- 100% Design Drawings
- 100% Specifications
- 100% EOPCC
- 60% Comment/Response Log

Task 3 – Issued for Bid Documents

Based on the CITY's 100% review comments and discussions at the 100% review meeting, MEAD & HUNT will advance the 100% design drawings and specifications to Bid Documents. MEAD & HUNT will prepare and submit bid documents including bid number, pre-bid date and time, and other pertinent information to create a Bid Set of the plans and specifications.

Deliverables – 100% Design

- Issued for Bid Drawings
- Issued for Bid Specifications
- 100% Comment/Response Log

Task 4 – Permitting

MEAD & HUNT will attend up to one (1) pre-application meeting with Florida Department of Environmental Protection (FDEP) to discuss permitting requirements. MEAD & HUNT will prepare an agenda and meeting summary for the meeting. After the pre-application meeting, any necessary revisions to the design recommendations will be reviewed with the CITY and incorporated into the various design components.

MEAD & HUNT will prepare and submit the Minor Modifications FDEP permit application in accordance with the specific permit requirements and input from the pre-application meeting. Permit applications will be submitted after the 60% design has been reviewed and accepted by the CITY. The CITY will receive one (1) electronic copy of final applications and permits. Permit fees will be paid by the CITY.

MEAD & HUNT will respond to up to one (1) Request for Additional Information (RAI) as part of the permit application process. Follow up phone calls or meetings with the regulators to assist with the responses are included in the task. Responses will be limited to clarifications related to the submittals in accordance with the documented permit requirements or those identified in the pre-application meeting. MEAD & HUNT will respond to RAI's in a timely manner to minimize any potential schedule impacts.

PHASE 5 – BIDDING ASSISTANCE PACKAGE #1

The CITY will be responsible for managing the bid process, i.e., advertisement, distribution of bid packages, receipt and opening of bids for Bid Package #1 (assumed for Phase 3 design documents). MEAD & HUNT will provide the following bid-phase services for per each bid package:

Pre-Bid Meeting

MEAD & HUNT will attend and lead a pre-bid meeting at the CITY facility to review the project details before bids are submitted. MEAD & HUNT will present project details and answer potential bidders' questions at this meeting.

Addenda

MEAD & HUNT will respond to potential bidders' questions during the bid period. Questions and responses will be documented and submitted to the CITY for distribution to potential bidders in the form of addenda. MEAD & HUNT will prepare one (1) addendum per bid package, for a combined total of two (2) addendum.

Bid Tabulation and Recommendation of Award

MEAD & HUNT will complete a review of the bids for completeness and conformance with the bidding and contract requirements. MEAD & HUNT will evaluate the low bidder(s) submitted qualifications information and contact provided references to inquire about bidders' experience. Based on that review, MEAD & HUNT will submit to the CITY a bid tabulation and a recommendation of award.

Deliverables – Bidding Services

- Pre-bid Meeting Agenda and Summary
- Addenda to bid documents
- Final bid tabulation
- Recommendation of award

PHASE 6 – BIDDING ASSISTANCE PACKAGE #2

The CITY will be responsible for managing the bid process, i.e., advertisement, distribution of bid packages, receipt and opening of bids for Bid Package #2 (assumed for Phase 4 design documents). MEAD & HUNT will provide the following bid-phase services for per each bid package:

Pre-Bid Meeting

MEAD & HUNT will attend and lead a pre-bid meeting at the CITY facility to review the project details before bids are submitted. MEAD & HUNT will present project details and answer potential bidders' questions at this meeting.

Addenda

MEAD & HUNT will respond to potential bidders' questions during the bid period. Questions and responses will be documented and submitted to the CITY for distribution to potential bidders in the form of addenda. MEAD & HUNT will prepare one (1) addendum per bid package, for a combined total of two (2) addendum.

Bid Tabulation and Recommendation of Award

MEAD & HUNT will complete a review of the bids for completeness and conformance with the bidding and contract requirements. MEAD & HUNT will evaluate the low bidder(s) submitted qualifications information and contact provided references to inquire about bidders' experience. Based on that review, MEAD & HUNT will submit to the CITY a bid tabulation and a recommendation of award.

Deliverables – Bidding Services

- Pre-bid Meeting Agenda and Summary
- Addenda to bid documents
- Final bid tabulation
- Recommendation of award

PHASE 7 – SUBCONSULTANTS AND REIMBURSABLES

Items under this phase include out-of-pocket direct job expenses such as reproductions, postage, etc. It is assumed permit application fees will be paid by the CITY.

- Geotechnical – MEAD & HUNT will obtain the services of a licensed geotechnical engineer to conduct a geotechnical evaluation of the existing and proposed berm stability will be performed by Ardaman & Associates, Inc. (A&A). This will be billed at actual cost as a separate allowance.
- Survey – MEAD & HUNT will obtain the services of a licensed surveyor to conduct a survey. The design survey shall include location and survey of the existing lake intake pipe, lake topo elevations (top of berm and staging), pipeline route and alongside between Lake A and Lake B, topo around the existing disc filter, and various structural features. The detailed survey scope by L&S Diversified (L&S) is included herein. This work will be billed at actual cost as a separate allowance.
- Hydrogeologic Evaluation - MEAD & HUNT will obtain the services of a licensed hydrogeologist to conduct a hydrogeologic evaluation of the existing and proposed Lake Storage Reservoirs. The hydrogeologist costs will be billed in the Subconsultants and Reimbursable section. The hydrogeologic evaluation will be performed by Andreyev Engineering, Inc. (AEI). A copy of their proposal is included herein. This work will be billed at actual cost as a separate allowance.
- Permitting Coordination - MEAD & HUNT will obtain the services of Biological Consulting Services, Inc. (BCS) for permitting coordination with SJRWMD, ACOE, and FDEP. Due to BCS's role in permitting of the existing reclaimed lake storage reservoirs, time for permitting coordination and consulting is included. This work will be billed at actual cost as a separate allowance.

EXCLUSIONS

This scope of services excludes all items not specifically described herein, including but not limited to:

- Construction Phase Services
- Conformance of Documents for Construction
- Laboratory Services
- Conformance of Documents (completed during Construction Phase Services)
- Wetland delineation (existing wetland delineation will be assumed/utilized in permitting)

SCHEDULE

Mead & Hunt estimates the work included in this task order will be completed in accordance with the following schedule:

Phase/Task	Duration to Complete	Starting upon
<i>Phase 1 – Project Management</i>	<i>520 days</i>	<i>Receipt of notice to proceed</i>
<i>Phase 2 – Preliminary Design</i>	<i>133 days</i>	<i>Receipt of notice to proceed and sub-consultant deliverables</i>
<i>Phase 3 – Lake Storage Modifications</i>	<i>196 days</i>	<i>Client approval of PDR (Phase 2)</i>
<i>Phase 4 – Lake Intake Pipe Repair & Disc Filter Improvements</i>	<i>159 days</i>	<i>Receipt of notice to proceed</i>
<i>Phase 5 – Bidding Assistance Package #1</i>	<i>42 days</i>	<i>Client approval of Bid Documents</i>
<i>Phase 6 – Bidding Assistance Package #2</i>	<i>42 days</i>	<i>Client approval of Bid Documents</i>

Notes:

- (1) Refer to attached detailed schedule
- (2) Time frames above are dependent upon Client and Agency review times.

COMPENSATION

The not-to-exceed cost for this Scope of Services, is \$244,355.41 based on the following breakdown:

Phase/Task	Fee/Cost	Basis
<i>Phase 1 – Project Management</i>	\$15,836	<i>Lump Sum</i>
<i>Phase 2 – Site Investigation</i>	\$17,668	<i>Lump Sum</i>
<i>Phase 3 – Lake Storage Modifications Design & Permitting</i>	\$76,026	<i>Lump Sum</i>
<i>Phase 4 – Lake Intake Pipe Repair Design</i>	\$59,981	<i>Lump Sum</i>
<i>Phase 5 – Disc Filter Improvements Design & Permitting</i>	\$6,326	<i>Lump Sum</i>
<i>Phase 6 – Bidding Services</i>	\$6,326	<i>Lump Sum</i>
<i>Subtotal</i>	\$182,163	
<i>Phase 7 – Subconsultants/Reimbursables</i>	\$62,192.41	<i>Time & Expenses</i>
TOTAL	\$244,355.41	

AUTHORIZATION:

The scope of services and compensation stated in this proposal are valid for a period of thirty (30) days from date of submission. If authorization to proceed is not received during this period, this proposal may be withdrawn or modified by MEAD & HUNT.

PURSUANT TO FLORIDA STATUTE SECTION 558.0035, AN INDIVIDUAL EMPLOYEE OR AGENT OF MEAD & HUNT INC. MAY NOT BE HELD INDIVIDUALLY LIABLE FOR NEGLIGENCE.

IF THE CONTRACTOR (MEAD & HUNT, INC.) HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S (MEAD & HUNT, INC.'s) DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT (PROPOSAL), CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT CITY HALL, CITY OF PORT ORANGE, 1000 CITY CENTER CIRCLE, PORT ORANGE, FL 32129, City Clerk, Robin Fenwick, (386) 506-5566, rfenwick@port-orange.org.



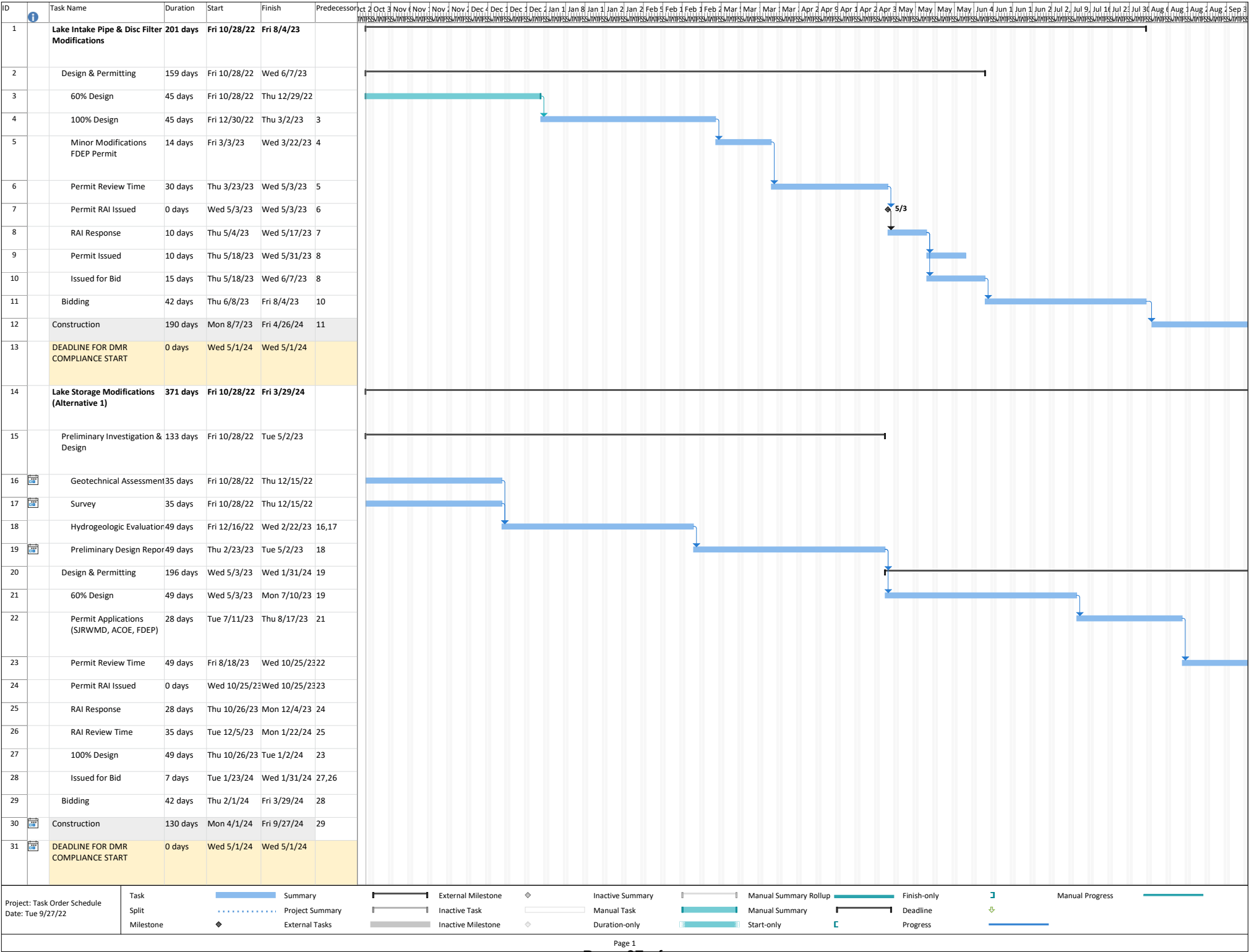
CITY OF PORT ORANGE
RECLAIMED WATER RESERVOIR IMPROVEMENTS
ESTIMATED MANHOUR SCHEDULE
January 4, 2023

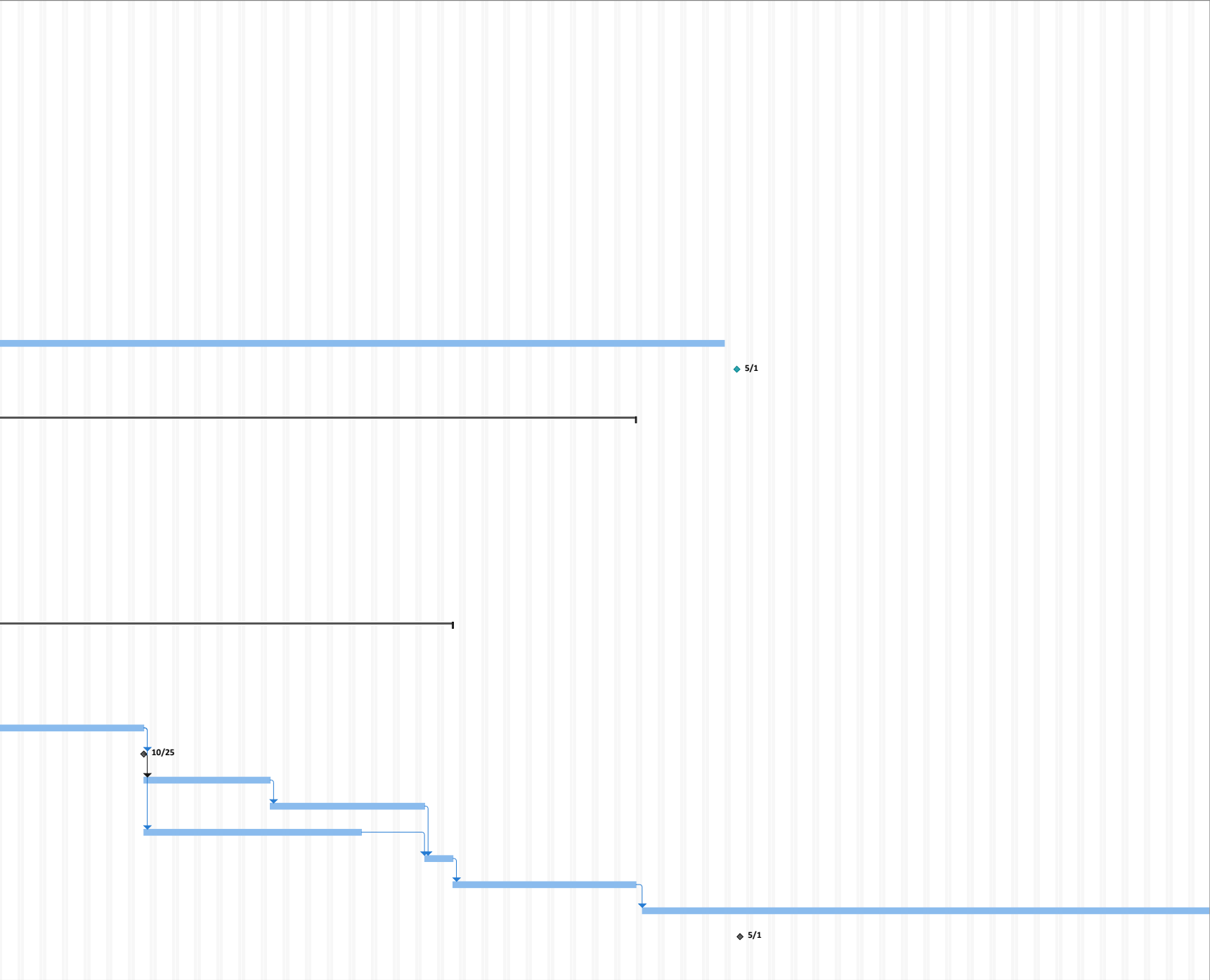
Phase	Description	Principal/Senior Client Manager	Senior Project Engineer	Engineer II	Senior Technician	Technician IV	Administrative Assistant	Total Task (\$)
	Hourly Rate	\$ 249.00	\$ 191.00	\$ 148.00	\$ 163.00	\$ 149.00	\$ 96.00	See Below
1	Project Management							
	Project Management (Task 1)		45				10	\$ 9,555.00
	Internal Kick-Off Meeting	1	2	2	1	1	1	\$ 1,335.00
	External Kick-Off Meeting	2	2	2			1	\$ 1,272.00
	Subconsultant Coordination (Task 2)	4	10				8	\$ 3,674.00
	Subtotals	7.0	59.0	4.0	1.0	1.0	20.0	\$ 15,836.00
2	Preliminary Design							
	Draft Preliminary Design Report	3	16	24	8	8	2	\$ 10,043.00
	Draft Preliminary Design Report Meeting	2	2	2			1	\$ 1,272.00
	Final Preliminary Design Report	3	6	16	8	4	2	\$ 6,353.00
	Subtotals	8.0	24.0	42.0	16.0	12.0	5.0	\$ 17,668.00
3	Lake Storage Modifications Design & Permitting							
	Prepare 60% documents (Task 1)	2	16	24		40	8	\$ 13,834.00
	60% QA/QC	8	2	6		12		\$ 5,050.00
	60% Review Meeting	2	2	2			2	\$ 1,368.00
	Prepare 100% documents (Task 2)	2	16	24		40	8	\$ 13,834.00
	60% Comment/Response Log		2	6			1	\$ 1,366.00
	100% QA/QC	6	2	6		8		\$ 3,956.00
	100% Review Meeting	2	2	2			2	\$ 1,368.00
	Prepare Bid Set documents (Task 3)	2	8	24		32	8	\$ 11,114.00
	100% Comment/Response Log		2	6			1	\$ 1,366.00
	Bid Set QA/QC	4	2	6		8		\$ 3,458.00
	FDEP Permit (Task 4)	1	4	6	12		2	\$ 4,049.00
	Pre-Application Meeting	1	2	1	4		1	\$ 1,527.00
	FDEP Permit RAI		2		3			\$ 871.00
	SJRWMD Permit (Task 5)	1	8	8	24	4	2	\$ 7,661.00
	Pre-Application Meeting	1	2	1	4			\$ 1,431.00
	SJRWMD Permit RAI		2		8			\$ 1,686.00
	ACOE Permit (Task 6)	1	2		4		1	\$ 1,379.00
	Pre-Application Meeting		2		2			\$ 708.00
	Subtotals	33.0	78.0	122.0	61.0	144.0	36.0	\$ 76,026.00
4	Lake Intake Pipe Repair & Disc Filter Improvements Design & Permitting							
	Prepare 60% documents (Task 1)	2	16	24		40	8	\$ 13,834.00
	60% QA/QC	8	2	6		12		\$ 5,050.00
	60% Review Meeting	2	2	2			2	\$ 1,368.00
	Prepare 100% documents (Task 2)	2	16	24		28	8	\$ 12,046.00
	60% Comment/Response Log		2	6			1	\$ 1,366.00
	100% QA/QC	4	2	6		6		\$ 3,160.00



CITY OF PORT ORANGE
RECLAIMED WATER RESERVOIR IMPROVEMENTS
ESTIMATED MANHOUR SCHEDULE
January 4, 2023

Phase	Description	Principal/Senior Client Manager	Senior Project Engineer	Engineer II	Senior Technician	Technician IV	Administrative Assistant	Total Task (\$)
	Hourly Rate	\$ 249.00	\$ 191.00	\$ 148.00	\$ 163.00	\$ 149.00	\$ 96.00	See Below
	100% Review Meeting	2	2	2			2	\$ 1,368.00
	Prepare Bid Set documents (Task 3)	2	8	24		28	8	\$ 10,518.00
	100% Comment/Response Log		2	6			1	\$ 1,366.00
	Bid Set QAQC	4	2	6		8		\$ 3,458.00
	Permitting (Task 4)	1	4	6	12		2	\$ 4,049.00
	Pre-Application Meeting	1	2	1	4		1	\$ 1,527.00
	FDEP Permit RAI		2		3			\$ 871.00
	Subtotals	28.0	62.0	113.0	19.0	122.0	33.0	\$ 59,981.00
5	Bidding Assistance Package #1							
	Attend pre-bid	2	4					\$ 1,262.00
	Address bidder's questions and prepare addenda	2	4	2			2	\$ 1,750.00
	Attend bid opening		2	2				\$ 678.00
	Evaluate bids, bid tab, and prepare award recommendation ltr		4	12			1	\$ 2,636.00
	Subtotals	4.0	14.0	16.0	0.0	0.0	3.0	\$ 6,326.00
6	Bidding Assistance Package #2							
	Attend pre-bid	2	4					\$ 1,262.00
	Address bidder's questions and prepare addenda	2	4	2			2	\$ 1,750.00
	Attend bid opening		2	2				\$ 678.00
	Evaluate bids, bid tab, and prepare award recommendation ltr		4	12			1	\$ 2,636.00
	Subtotals	4.0	14.0	16.0	0.0	0.0	3.0	\$ 6,326.00
	TOTAL ALL TASKS	84.0	251.0	313.0	97.0	279.0	100.0	\$ 182,163.00
7	Subconsultant/Reimbursables Breakdown:							
	Description	Amount						
	Geotech Allowance	\$ 10,000.00						
	Survey Allowance	\$ 16,692.41						
	Hydrogeologic Allowance	\$ 23,000.00						
	Permitting Coordination Allowance	\$ 12,000.00						
	Printing/Reproduction/Postage	\$ 500.00						
	Total	\$ 62,192.41						
							Lump Sum Total	\$ 182,163.00
							Subs/Reimbursables	\$ 62,192.41
							GRAND TOTAL	\$ 244,355.41





Project: Task Order Schedule Date: Tue 9/27/22	Task	Summary	External Milestone	Inactive Summary	Manual Summary Rollup	Finish-only	Manual Progress
	Split	Project Summary	Inactive Task	Manual Task	Manual Summary	Deadline	Manual Progress
	Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only	Progress	Progress



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L & S Diversified

Surveying and Mapping | Subsurface Utility Engineering | LiDAR

September 20, 2022

**Tonya Sonier, PE
Mead & Hunt
4401 Eastport Parkway
Port Orange, FL 32127**

Subject: Port Orange Lake Intake and Storage

Dear Tonya,

We appreciate your consideration of L&S Diversified, LLC to provide professional surveying services for the above referenced project. Below we have outlined a proposed schedule of services and the associated fees for this project.

SCOPE OF SERVICES

- Location and survey of the existing lake intake pipe (we had discussed this previously, see attached email, and as shown on Sheet 8 of 25 of Record Drawing PDF)
- Lake topo elevations – top of berm and staging (see sheet 3 of 25 of Record Drawing PDF)
 - Pipeline route and along side between Lake A and Lake B (sheet 14 of 25 of Record Drawing PDF)
- Topo around the existing disc filter and
- Structure features (invert elevations and top of structure):
 - Drainage manholes between Lake A and Lake B (sheet 14 of 25 of Record Drawing PDF)
 - Drainage manholes to Wetlands (sheet 8 of 25 of Record Drawing PDF)
 - Spillway / Control Porint #1 (sheet 8 of 25 of Record Drawing PDF)
 - Intake/Outfall Structure (sheet 8 and 9 of 25 of Record Drawing PDF)
 - Mixer Slab, Disc Filter, 2 Drainage Manholes, and lift station wetwell (Sheet 5 of 25 of Record Drawing PDF)
- Additional safety measures will be followed per Florida Fish and Wildlife Conservation Commission (FWC) concerning the known presence of alligators in the area.

Establish Survey Control

L & S Diversified shall establish horizontal and vertical control monuments to facilitate site engineering. The monuments shall be established so that there is clear line of site between them. Horizontal coordinates shall be referenced to Florida State Plane, North American Datum of 1983 (NAD83). Elevations shall be referenced to North American Vertical Datum of 1988 (NAVD88).

L & S Diversified, LLC

Principal
Sherry Lee Manor, PSM

489 SR 436, Suite 117
Casselberry, FL 32707
o 407.681.3836

www.LSsurveyor.com

Page 1 of 4



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Topographic and Hydrographic Survey

L & S Diversified will provide all labor, equipment and resources necessary to research, locate and/or establish the required site control and perform a topographic and/or hydrographic survey.

Topographic Survey: RTK/GPS or conventional data acquisition at a **50-foot grid** within the project limits, **plus 10 feet outside project limits**; location and elevation of existing improvements and visible above ground utilities; and setting at least 4 site bench marks to facilitate engineering for the project site.

Hydrographic Survey: single beam or lead line data acquisition at **50-foot cross** sections inside the project limits, **plus 10 feet outside project limits**. Sufficient data will be acquired to determine the depth and topography of the near shore lake bottom. It is anticipated that during the hydrographic survey, enough of the intake structure will be above the surface of the bottom of the pond that the hydrographic gear will locate the intake structure. Should sediment be covering the intake structure, other means will need to be explored to locate the intake structure.

The topographic & hydrographic survey will be displayed at one foot contours and will be based on the North American Vertical Datum (NAVD) of 1988.

The Topographic Survey will be prepared in accordance with the State of Florida Standards of Practice Chapter 5J-17, Florida Administrative Code, as set forth by the Board of Professional Surveyors and Mappers, pursuant to Section 472.027, Florida Statutes.

L&S Diversified will follow the guidelines for collecting field data as outlined in the US Army Corps of Engineers manual EM 1 110-2-1003 – Engineering and Design, Hydrographic Surveying. Data acquisition will conform to the horizontal and vertical precision standards as outlined in the Federal Geographic Data Committee, Geospatial Positioning Standards – PART 4: Standards for A/E/C and Facility Management (FGDC-STD-007.4-2002).

Deliverables

Survey in pdf and dwg format, signed and sealed hardcopies as required by Client are to be billed at cost.

L & S Diversified, LLC

Principal
Sherry Lee Manor, PSM

489 SR 436, Suite 117
Casselberry, FL 32707
o 407.681.3836

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Schedule

L & S Diversified will begin the Survey on the subject property within 5 working days after receipt of your executed Notice to Proceed (NTP). This does not apply if extensive title work is involved, extensive certification requirements are needed, or if an ALTA/ACSM Survey is required. Proposed fee and schedule shown hereon is valid for up to 45 days from the date of receipt. We prefer at least 48 hours of notice for scheduling of a field crew.

Description	Duration
Field Data Collection	2 Weeks
Office Drafting	1 Weeks
QA/QC	1 Week
Estimated Delivery of Survey from Notice to Proceed	4 Weeks

Additional Services

If the client desires to change or expand upon these proposed services, an additional fee shall be negotiated. This renegotiation shall be accomplished prior to commencing the additional work, and may be necessary for any of the following services which are not a part of this contract:

Locating and/or flagging Flood Zone Line or Normal High Water Line (NHWL), tidal records, or locating 'O' or specific elevations, Research and ordering additional Maps, Records or Materials necessary for completing these specified tasks; client-imposed requirements not covered herein; Additional Certifications or Affidavits not specified herein; Elevation Certifications; Wetland Delineation or Location; sub-surface Excavation or Underground Utility Location; Extensive Title Review and Plotting of Easements; Offsite Surveys or Sketches; Vertical Topographic information unless outlined in this proposal; Requests by Third Parties (Buyer's Attorney, Seller's Attorney, Lender or Lender's Counsel, Real Estate Agents, Title Company Personnel, etc.) for additions, deletions or revisions to be made to the survey drawings or maps before or after initial submittal to client; Additional Meetings and Errands not covered herein which are necessary to complete these specified tasks; Client-Authorized on-site instruction given to field crew for extra field work not covered herein; Client-approved overtime; Additional ALTA Table A Items.

Reimbursables such as overnight mailings, sending electronic files, copying charges, blueprinting costs, plotting of extra drawings not covered herein, delivery, shipping, or rush charges, etc. will be billed as an Extra cost on a Time, Materials and Expense basis.

It may be necessary for the Project Manager to call the client to receive verification and authorization for Extra Costs stated above in the preceding paragraph, and may further require the client to sign an Additional Work Authorization Form for any out-of-scope requests.

L & S Diversified, LLC
Principal
Sherry Lee Manor, PSM

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All public entity or jurisdictional agency fees are to be paid directly by the client prior to obtaining approvals or permits. These fees include, but are not limited to, platting, impact, re-zoning, permitting, review and application fees. L & S Diversified has no control over the procedures of public entities or jurisdictional agencies, and therefore, cannot guarantee timing and outcome of permits and entitlements related to this site/project.

Thank you for this opportunity and we look forward to working with you on this exciting new project. Should you have any questions, please do not hesitate to call.

Sincerely,
L & S Diversified, LLC

Brad Alexander, PE, PSM
Vice-President

September 20, 2022

L & S Diversified, LLC

Principal
Sherry Lee Manor, PSM

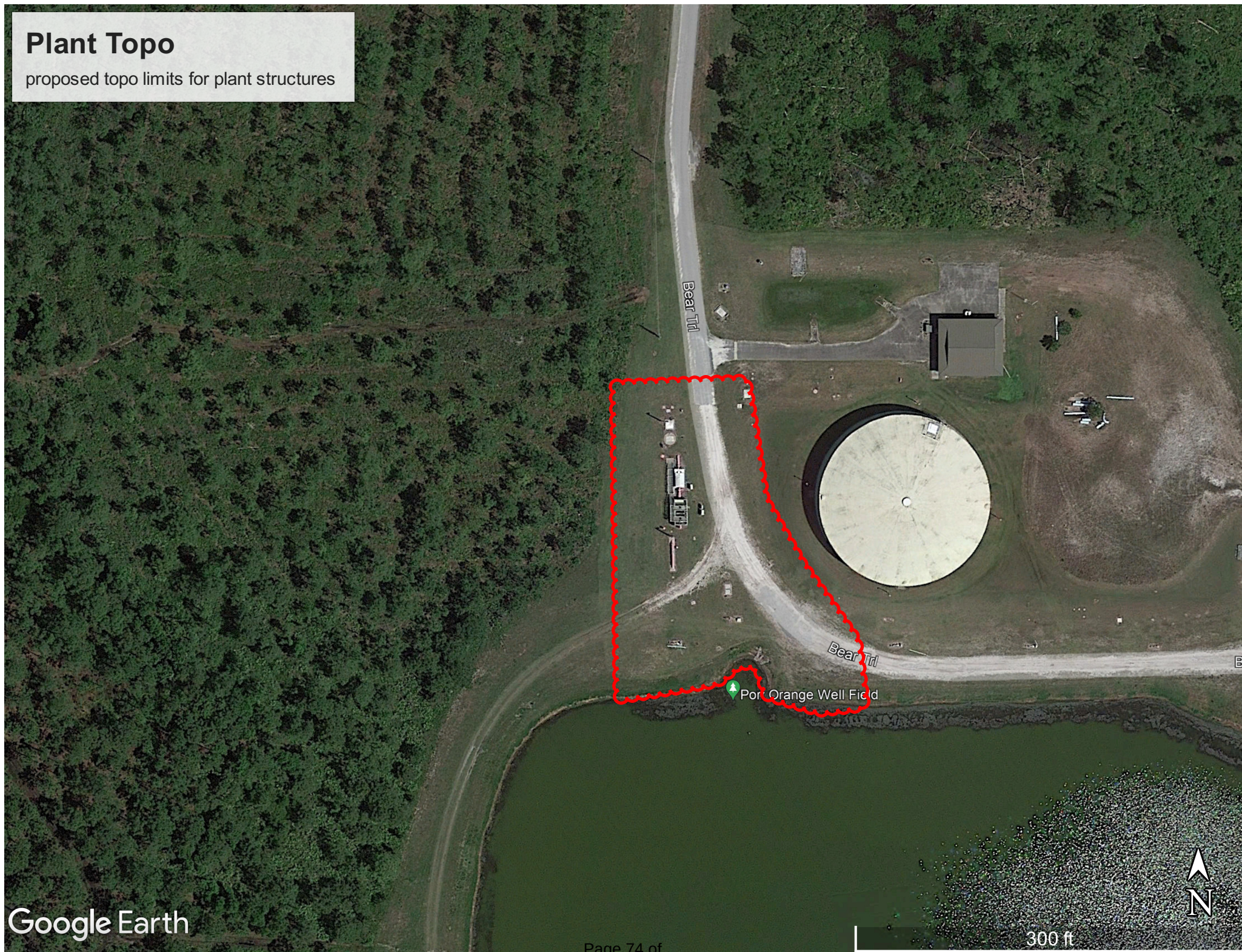
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L&S Diversified	Service Items 101-117								
	Survey Crew (1-2)	Survey Crew (3)	SUE Crew (1-2)	SUE Crew (3)					
	Rates	\$139.10	\$180.48	\$144.83	\$186.21				
		Hours	Hours	Hours	Hours			Subtotal - Hours	Subtotal - Fee
Service Item									
101 Survey Control	12.00						12.00	\$1,669.20	
104 Topographic Survey	32.00						32.00	\$4,451.20	
109 Hydrographic		16.00					16.00	\$2,887.68	
	44.00	16.00	0.00	0.00			60.00	\$9,008.08	
	Service Items 201-220								
Rates	Mapping Technician	PSM	Survey PM	Survey Coord	SUE Coord	SUE PM			
	\$91.50	\$144.83	\$134.65	\$73.62	\$84.48	\$134.65			
	Hours	Hours	Hours	Hours	Hours	Hours	Subtotal - Hours	Subtotal - Fee	
Service Item									
201 Survey Control	6.00	1.00	2.00	1.00			10.00	\$1,036.75	
206 Topographic Survey	16.00	4.00	2.00	4.00			26.00	\$2,607.10	
211 Hydrographic	24.00	8.00	4.00	2.00			38.00	\$4,040.48	
	46.00	13.00	8.00	7.00	0.00	0.00	74.00	\$7,684.33	
Reimbursables									
	Quantity					Rate			
Plotting (Bond Paper) 24" x 36"							\$3.50	\$0.00	
Plotting (Bond Paper) 11"x 17"							\$2.50	\$0.00	
Plotting (Bond Paper) Other							\$1.50	\$0.00	
Color Printing/Copying 11"x 17"							\$0.75	\$0.00	
Color Printing/Copy 8 1/2" x14"							\$0.65	\$0.00	
Color Printing/Copy 8 1/2" x11"							\$0.60	\$0.00	
B&W Print/Copy 11" x 17"							\$0.70	\$0.00	
B&W Print/Copy 8 1/2" x 14"							\$0.60	\$0.00	
B&W Print/Copy 8 /12" x 11"							\$0.55	\$0.00	
USB								\$0.00	
Recording Fee								\$0.00	
Permits								\$0.00	
Maintenance of Traffic								\$0.00	
								\$0.00	
Total Fee								\$16,692.41	

Plant Topo

proposed topo limits for plant structures



Intake and Outfall Topo

proposed topo limits for Intake and Outfall Structures



Crossover Pipe

proposed topo limits 50' each side of
existing crossover pipe between ponds A & B

Pond A

Pond B



■ Never feed alligators – it's dangerous and illegal. When fed, alligators can overcome their natural wariness and learn to associate people with food. When this happens, some of these alligators have to be removed and killed.

■ Dispose of fish scraps in garbage cans at boat ramps and fish camps. Do not throw them into the water. Although you are not intentionally feeding alligators when you do this, the result can be the same.

■ Seek immediate medical attention if you are bitten by an alligator. Alligator bites can result in serious infections.

■ Observe and photograph alligators only from a distance. Remember, they're an important part of Florida's natural history as well as an integral component of aquatic ecosystems.



Janice Plain

To report nuisance alligators call
866-FWC-GATOR (866-392-4286).



MyFWC.com/Alligator



Tim Donovan, FWC

Call 866-FWC-GATOR (392-4286) to report nuisance alligators.

A Guide to Living with **Alligators**



Jamie Feddersen





Lizabeth West, FWC

Do not swim outside of posted swimming areas or in waters that may be inhabited by alligators.

Living with Alligators

In Florida, the growing number of people living and recreating near water has led to a steady rise in the number of alligator-related complaints. The majority of these complaints relate to alligators being where they simply aren't wanted. Because of these complaints, the Florida Fish and Wildlife Conservation Commission's Statewide Nuisance Alligator Program permits the killing of approximately 7,000 nuisance alligators each year. Using this approach, and through increased public awareness, the rate of alligator bites on people has remained constant despite the increased potential for alligator-human interactions as Florida's human population has grown.

Alligators are an important part of Florida's landscape and play a valuable role in the ecology of our state's wetlands. Alligators are predators and help keep other aquatic animal populations in balance. A better understanding of the facts and information presented in this brochure will help ensure that people and alligators can continue to coexist.

Visit MyFWC.com/Gators for more information about alligators and the latest nuisance alligator program statistics.



Tim Donovan, FWC

Alligators and People

Alligators are a fundamental part of Florida's wetlands, swamps, rivers and lakes, and they are found in all 67 counties. Florida continues to experience human population growth. Many new residents seek waterfront homes, resulting in increased interactions between people and alligators.

Although most Floridians understand that we have alligators living in our state, the potential for conflict exists. Because of their predatory nature, alligators may target pets and livestock as prey. Unfortunately, people also are occasionally bitten. Since 1948, Florida has averaged about five unprovoked bites per year. During that period, a little more than 300 unprovoked bites to people have been documented in Florida, with 22 resulting in deaths.

In the past 10 years, the Florida Fish and Wildlife Conservation Commission has received an average of nearly 16,000 alligator-related complaints per year. Most of these complaints deal with alligators occurring in places such as backyard ponds, canals, ditches and streams, but other conflicts occur when alligators wander into garages, swimming pools and golf course ponds. Sometimes, alligators come out of the water to bask in the sun or move between wetlands. In many cases, if left alone, these alligators will eventually move on to areas away from people.

Safety Tips

■ Generally, alligators less than four feet in length are not large enough to be dangerous unless handled. However, if you encounter any alligator that you believe poses a threat to people, pets or property,

call the Nuisance Alligator Hotline at 866-FWC-GATOR (866-392-4286). Please be aware, nuisance alligators are killed, not relocated.

- Be aware of the possibility of alligators when you are in or near fresh or brackish water. Bites may occur when people do not pay close enough attention to their surroundings when working or recreating near water.
- Do not swim outside of posted swimming areas or in waters that might be inhabited by large alligators.
- Alligators are most active between dusk and dawn. Therefore, avoid swimming at night.
- Dogs and cats are similar in size to the natural prey of alligators. Don't allow pets to swim, exercise or drink in or near waters that may contain alligators. Dogs often attract an alligator's interest, so do not swim with your dog.
- Leave alligators alone. State law prohibits killing, harassing or possessing alligators. Handling even small alligators can result in injury.



Tim Donovan, FWC

A young alligator wanders onto a porch in a residential neighborhood.



September 21, 2022
Project No.: GPGW-11-0045

TO: Quentin L Hampton Associates, Inc.
P.O. Drawer 290247
Port Orange, FL 32129-0247

Attention: Tonya Sonier, P.E.

Subject: Proposal: Hydrogeologic Evaluation and Water Balance Analysis
Reclaimed Water Basins Stage Change & Wetland Impact Assessment
City of Port Orange, Volusia County, Florida

Dear Ms. Sonier:

Per your request, Andreyev Engineering, Inc. (AEI) presents this proposal to conduct additional hydrogeologic analysis and groundwater modeling for the reclaimed water storage basins and the adjacent wetland system (Wetland 2005) located west of Lake A. The additional analysis and modeling will be to quantify the potential wetland impacts of the proposed raised operational stages at the reclaimed water storage and recovery basins.

Purpose and Scope of Study

The purpose of this study will be to re-assess the feasibility of increasing the high water levels of the existing reclaimed water storage and recovery basins operated by the City of Port Orange and to quantify the potential hydrologic impacts of the proposed operational changes to the adjacent wetland system. The adjacent wetland, Wetland 2005, has a controlled outfall and the study includes evaluation of potential increase of discharge rate from the wetland due to the operational change of the storage basins during a design storm event.

To conduct this hydrologic re-evaluation and water balance analysis, AEI will carry out the following scope of work:

1. Reviewed previous hydrogeologic investigations and modeling data completed in 2011 for the reclaimed water storage and recovery basins.
2. Review the previous analysis and current operational data to determine if verification of the model calibration is needed.
3. Update and re-calibrate the models, if necessary.
4. The MODFLOW model will be utilized to characterize the lateral flow between the storage basins and the wetland. Most likely the previous models developed in 2011 are outdated and new models will need to be set up for this purpose. The

models will be set up in a cross sectional form to allow calibration of the models to the observed gradients across the berm. The calibrated model will then be used to calculate the lateral seepage of water per lineal foot of berm and per foot of head change.

5. Once the relationship of lateral flow per lineal foot of berm and per foot of head is developed a water balance analysis will be conducted for the adjacent wetland system. The water balance will be conducted for the average year wet season period spanning June 1 through September 30.
6. A series of model runs will be conducted by varying the water level in the lakes and calculating the flow of groundwater to the wetland per lineal foot of berm and per foot of head.
7. Utilizing the stage-discharge relationship data and the length of the basin berms facing the wetland of concern the total contribution of water to the wetland system will be calculated for the revised average stage elevation of Lake A.
8. To assess the potential hydrologic impact to a wetland system in its simplest form is to calculate the total amount of additional water that would be contributed by the revised operational stages of the lakes over the wet season period and determine its maximum potential rise of water level in the wetland.
9. For the simplest form of impact assessment, the potential hydrologic impact to the wetland will be calculated as follows:
 - Calculate the total amount of water flow to the wetland during the normal wet season period
 - Calculate the total area of the wetland receiving the groundwater inflow from Lake A.
 - Convert the total amount of groundwater flow from the lakes to the wetland duration of the wet season (June through September) to feet of stage and to flow rate.
 - Evaluate the calculated rise of water level in the wetland for potential impacts. Generally, a potential wetland impact can occur if the additional water inflow results in a rise of wetland level more than 0.5 feet.
 - Calculate the additional inflow and overflow rates for the wetland to be included in the routing flow modeling by others, if necessary.

Preparation of Report & Cost Estimate

At the completion of our evaluation, modeling and wetland impact assessment, we will provide the following services:

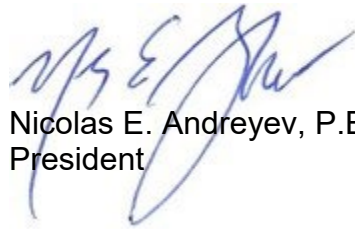
- Prepare a summary hydrogeologic report presenting the evaluation and groundwater modeling work, including the updated groundwater models, revised lateral flow calculations, wetland impact modeling and wetland impact assessment due to increase operational water levels in the reclaimed water storage and recovery basins.
- Attend meetings and presentations during and after the modeling efforts, as needed.
- Respond to comments and revisions, as needed. Revise and update the final report, as needed.

The estimated budget for our services is summarized below:

Task A – Review, Evaluation, Modeling and Impact Assessment.....	\$15,000.00
Task B – Presentations of Results and Preparation of Report.....	<u>\$8,000.00</u>
TOTAL ESTIMATED FEE	\$ 23,000.00

We trust that this proposal includes all the analyses and modeling needed for your final assessment and consent order documentation purposes. If you have any questions or comments concerning the contents of this proposal, please do not hesitate to contact our office at 407-330-7763.

Sincerely,
Andreyev Engineering, Inc.



Nicolas E. Andreyev, P.E.
President



FINAL

FDEP Consent Order Corrective Actions Report (Revised)

August 2022

Tonya M Sonier, Professional Engineer,
State of Florida, License No. 84222

This item has been digitally signed and
sealed by Tonya M Sonier, PE, on
8/10/2022.

Printed copies of this document are not
considered signed and sealed and the
signature must be verified on any
electronic copies.

Digitally signed
by Tonya M
Sonier
Date:
2022.08.10
21:21:05-04'00'

Tonya M Sonier



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1. Introduction

The City of Port Orange (City) owns and operates the R. Dwayne Huffman Reclaimed Water Plant (RDHRWP). The rated capacity for this plant is 12 MGD. The reclaimed water that is produced is used for public access reuse (R-001), recharging wetlands (D-002), and discharge to the Halifax River (D-001). The City's RDHRWP is permitted for 10.5 MGD average annual daily flow (AADF) to public access reuse (PAR) and 0.999 MGD AADF to the Halifax River and to recharging wetlands. The sum of the flows to D-001 and D-002 are not to exceed 0.999 MGD on an annual average basis.

In addition to permitted flow rate limits, the discharge effluent points have permit limits on various parameters. The effluent water at the wetlands discharge (EFD-2) has a monthly, weekly, and daily average total suspended solids (TSS) permit limit of 5.0 mg/L, 7.5 mg/L, and 10 mg/L, respectively. A summary of the D-001 and D-002 flow and EFD-2 TSS permit limits are displayed in **Table 1-1**.

TABLE 1-1: SUMMARY PERMITTED FLOWS & TSS

Parameter	Basis	Location	Limit	Unit
Flow ⁽¹⁾	AADF	D-001	0.999	MGD
Flow ⁽¹⁾	AADF	D-002	0.999	MGD
TSS	Monthly Average	EFD-2	5.0	mg/L
TSS	Weekly Average	EFD-2	7.5	mg/L
TSS	Daily Maximum	EFD-2	10.0	mg/L

Notes:

(1) sum of the flows to D-001 and D-002 are not to exceed 0.999 MGD on an annual average basis.

The Florida Department of Environmental Protection (FDEP) issued Consent Order OCG No. 21-0734, as shown in **Appendix A**, to the City of Port Orange on September 29th, 2021. This Consent Order (CO) is in response to violations of the City's RDHRWP Operating Permit. These violations from the CO include:

Paragraph 4: The Department finds the following violations occurred:

- TSS monthly averages reported at EFD-2 on the D-002 Daily Monitoring Report (DMR) for November 2020, January 2021, February 2021, March 2021, and April 2021 exceeded the permit limit of 5.0 mg/L.*
- TSS weekly averages reported at EFD-2 on the D-002 DMR for December 2020, January 2021, March 2021, April 2021, and May 2021 exceeded the permit limit of 7.5 mg/L.*
- TSS daily maximums reported at EFD-2 on the D-002 DMR for December 2020, January 2021, February 2021, March 2021, and April 2021 exceeded the permit limit of 10.0 mg/L, for any one sample.*
- The annual average flow reported for D-001 on DMRs for October 2020 through June 2021 exceeded the permitted flow annual average of 0.999 MGD.*

In response to these violations, FDEP mandated various corrective actions and deliverables. Mead & Hunt prepared the deliverables outlined in **Table 1-2** and on December 16, 2021 the City submitted these documents to FDEP to satisfy the requirements outlined in the table. FDEP provided approval of the submitted documents and notification to proceed with the Corrective Actions Report (CAR) on February 11, 2022.

TABLE 1-2: FDEP CONSENT ORDER DELIVERABLE REQUIREMENTS

No.	Deliverable Name	CO Requirement & Reference
1	Evaluation of Violation Causes	Paragraph 6
2	Corrective Actions Report	Paragraph 7 to 12
3	Usage Projection & Facility Plan	Paragraph 13 to 14

Upon receipt of FDEP's CAR approval, the City immediately began field investigations at the proposed spray field to address the flow rate discharge violation to the Halifax River (D-001) and the wetlands discharge (EFD-2) to address the TSS violations. An extension of the CO deadlines was requested from FDEP on February 22, 2022, due to the following reasons:

- Flow Violation (D-001): Unfavorable geotechnical results, provided in **Appendix B**, were acquired at the proposed spray field. The proposed spray field is not anticipated to provide sufficient effluent discharge relief due to the anticipated seasonal high ground water table elevation. Additional time was requested to evaluate alternative corrective actions and revised the previously submitted CAR.
- TSS Violation (EFD-2): After rehabilitating the existing wetland's disc filter and City resumed operation of the equipment to reduce the TSS at EFD-2. Shortly after operations began, the disc filters were found to be collecting sand, diminishing the performance of the TSS removal. It is suspected that the lake suction line has a defect that is causing sand to enter the disc filters. Additional time was requested to inspect and repair the disc filter's suction line, in addition to the improvements identified in the previously submitted CAR.

This report herein includes:

- Section 2.1: alternatives analysis to address the flow violation at D-001.
- Section 2.2: revised proposed corrective actions to address the flow violation at D-001.
- Section 3: revised proposed corrective actions to address the TSS Violation (EFD-2).
- Section 4: summary of the CAR and implementation schedule to address CO OCG No. 21-0734.

The purpose of this report is to provide FDEP with a resubmittal and update of the CAR based upon the recent findings noted above. The Evaluation of Violation Causes and the Usage Projection & Facility Plan deliverables are assumed to have been met per their previous submittal and require no modifications. The current CO requirements and deadlines are summarized in **Table 1-3** and **Figure 1-1** below.

TABLE 1-3: FDEP DELIVERABLE DEADLINES AND UPDATED STATUS

No.	Deliverable Name	CO Requirement & Reference	Status
1	Evaluation of Violation Causes	Paragraph 6	Approved on 2/11/22
2	Corrective Actions Report	Paragraph 7	Due on 8/14/22
3	Usage Projection & Facility Plan	Paragraph 13	Approved on 2/11/22

FIGURE 1-1: CONSENT ORDER SCHEDULE

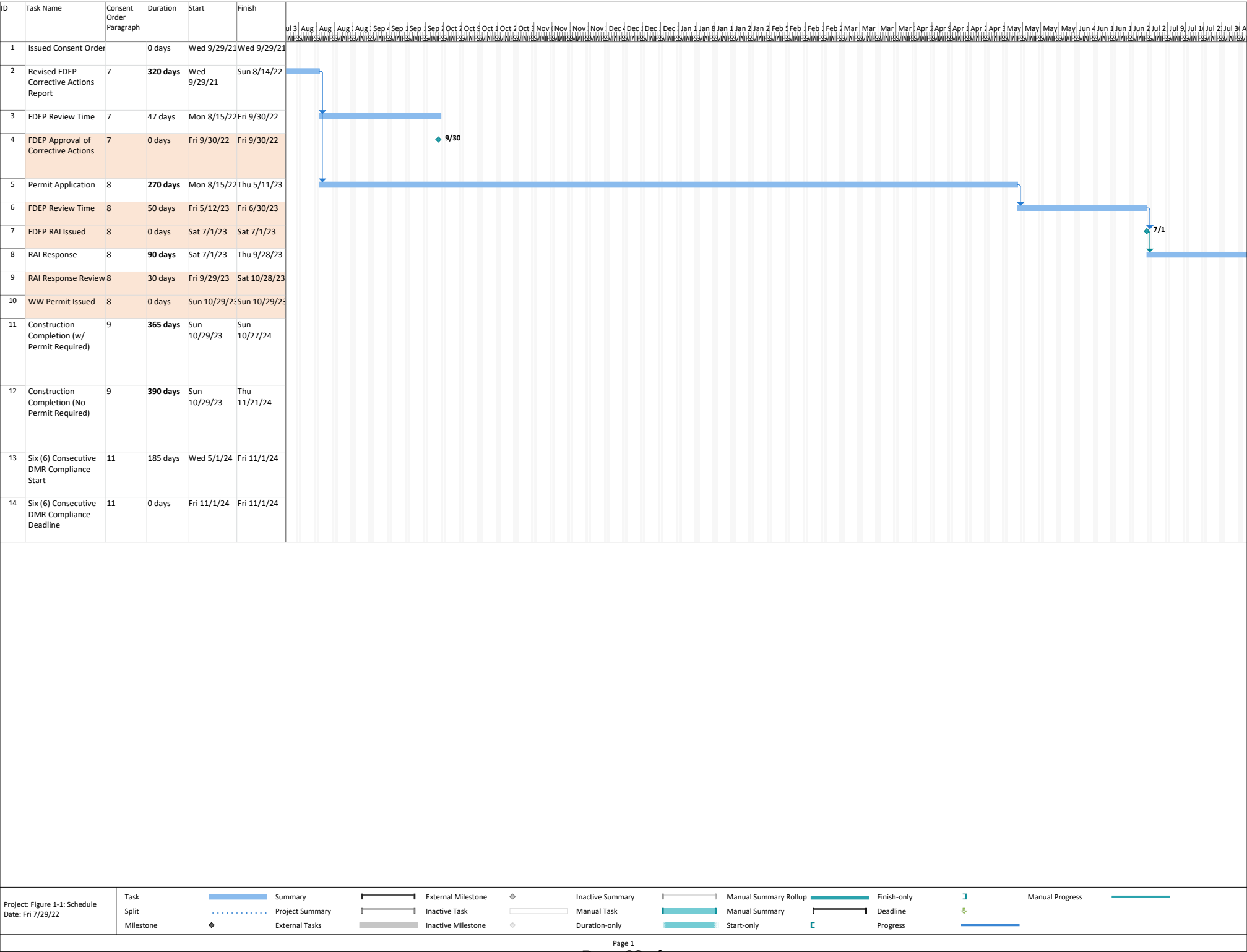
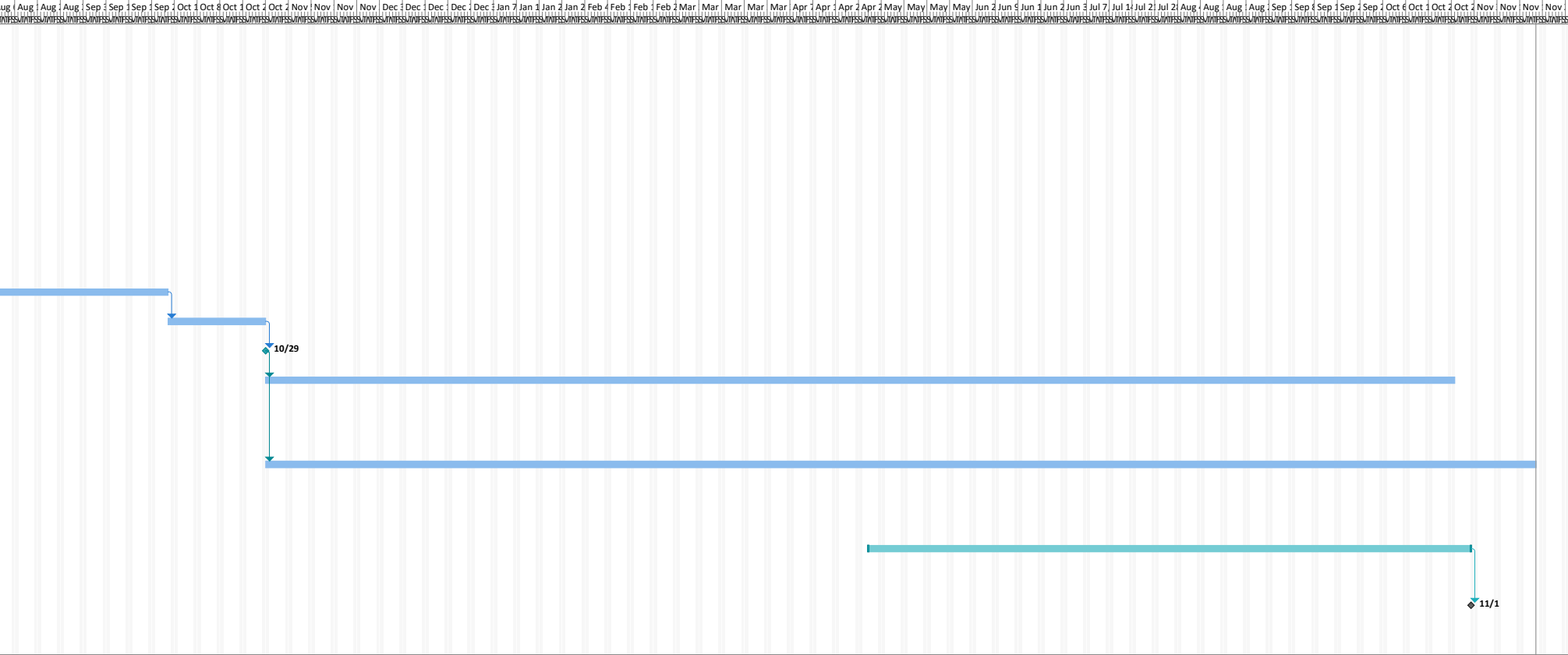


FIGURE 1-1: CONSENT ORDER SCHEDULE



Project: Figure 1-1: Schedule Date: Fri 7/29/22	Task	Summary	External Milestone	Inactive Summary	Manual Summary Rollup	Finish-only	Manual Progress	Progress
	Split	Project Summary	Inactive Task	Manual Task	Manual Summary	Deadline	Manual Progress	
	Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only	Progress		

2. D-001 Flow Violation – Corrective Actions

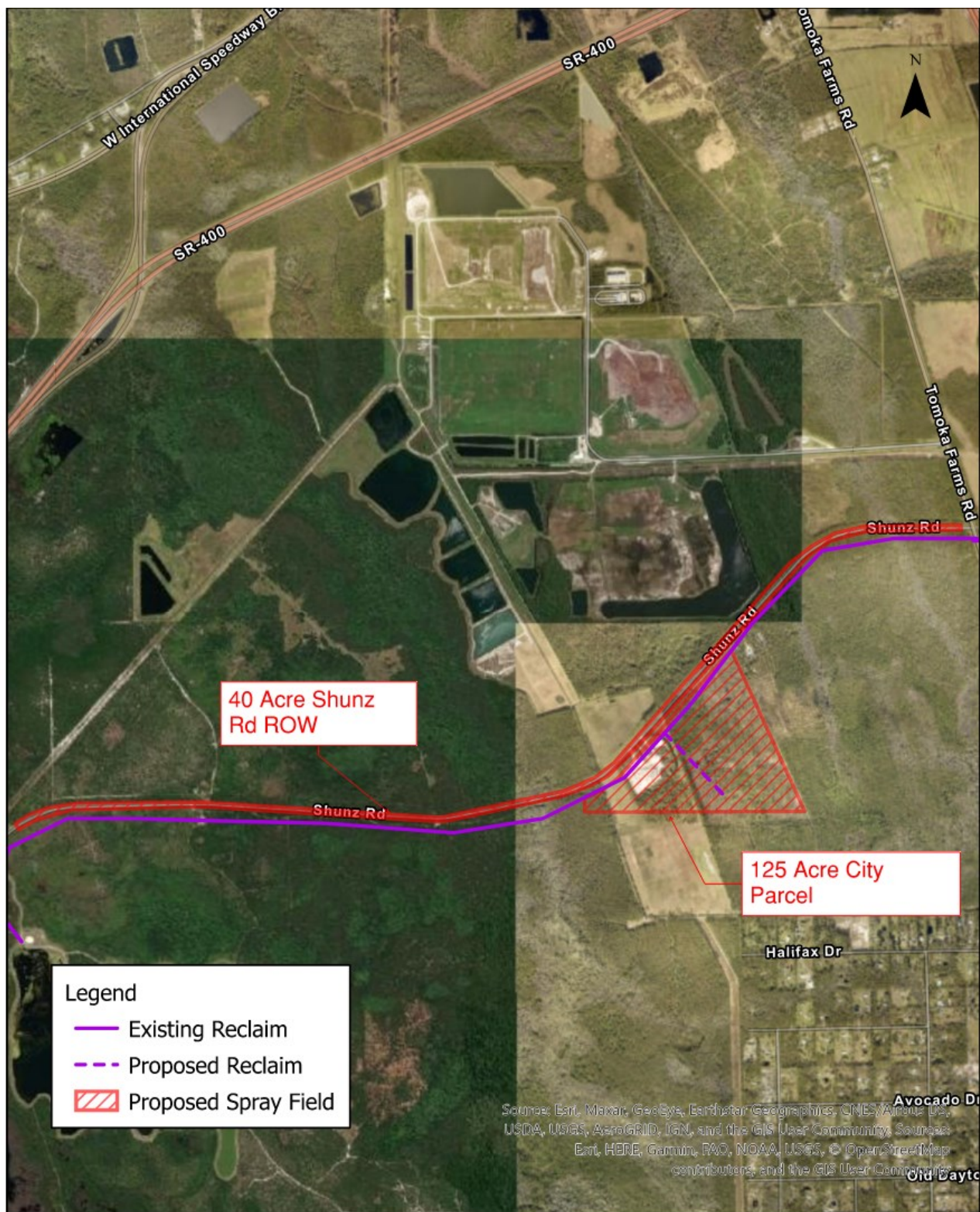
The City exceeded the D-001 permitted flow limit of 0.999 MGD AADF by a maximum of 0.112 MGD in November 2020 (1.111 MGD reported) primarily due to excessive rainfall and low reuse demand. The 12-month usage projection previously submitted to FDEP revealed that the City required an additional 1.0 MGD AADF of reclaimed water demand to reliably maintain a surface water discharge below the permitted limit. The City intends to comply with the D-001 permitted flow limit, even during substantial rainfall events.

The previously submitted CAR included the opportunity to expand the City's existing PAR to increase the reclaimed water demands to offset excess flows to the Halifax River. A 125-acre City owned vacant property was identified as a potential spray field, located adjacent to the City's soil fill storage site and the Shunz Road City right-of-way (ROW), as shown in **Figure 2-1**. The spray field was proposed to provide approximately 1.30 MGD AADF of additional reclaimed water demand. The proposed sprayfield would meet and exceed the estimated 1.0 MGD AADF of additional reclaimed water demand needed.

Bechtol Engineering conducted auger borings and field permeability/hydraulic conductivity testing at the proposed spray field site. Field test results (**Appendix B**), revealed a seasonal high groundwater elevation of 27.0 ft (existing grade is approximately 26.5 ft) and an average ground water table at the time of testing of approximately 0.34 ft below existing ground surface.

Due to the saturated conditions found in the proposed spray field, this corrective action plan was abandoned, and analysis of alternative corrective actions were necessary to resolve the flow rate violation at D-001. The alternative corrective actions considered for this project include additional reclaimed water storage and reduction of wastewater influent through a targeted inflow and infiltration reduction plan. These alternatives are evaluated and are included herein.

FIGURE 2-1: PREVIOUSLY PROPOSED SPRAY FIELD



21 Effluent Management Alternatives

The following section outlines the effluent management alternatives considered to address the CO flow violations at D-001. Comparison and recommendation of each alternative is presented in **Section 2.2**. The effluent management alternatives herein provide potential corrective actions to resolve the flow violation as summarized in **Table 2-1** below.

TABLE 2-1: EFFLUENT MANAGEMENT ALTERNATIVES AND CORRECTIVE ACTION SUMMARY

Alternative No.	Reference Section	Corrective Action	Solution Methodology & Description
1	2.1.1	Modify Existing Reclaimed Lake Reservoirs	Additional reclaimed water storage during wet season and/or low demands (R-001) and later withdrawn from to meet peak reclaimed water demands
2	2.1.2	Construct New Reclaimed Lake Reservoir	Additional reclaimed water storage during wet season and/or low demands (R-001) and later withdrawn from to meet peak reclaimed water demands
3	2.1.3	Construct Underground Injection Control Well	Alternative effluent disposal options from D-001 and D-002 upon exhausted PAR demands (R-001)
4	2.1.3	Inspect and Repair/ Replace Gravity Sewer System Components	Reduction of inflow and infiltration to reduce wastewater influent flow rates, resulting in reduced reclaimed water production during wet weather events

2.1.1 Alternative 1: Modify Existing Lake Storage Reservoirs for Additional Storage Volume

The City has two existing permitted reclaimed water storage reservoirs (also referred to as the lakes), as shown in **Figure 2-2**, with a combined total area of approximately 175 acres (100 acres at Lake A and 75 acres at Lake B). The lakes provide over 200 million gallons (MG) of seasonal reclaimed water storage and were developed to provide seasonal storage for peak reclaimed water demands, minimize discharge of effluent into the Halifax River, and enhance recharge to the Floridian aquifer and wetlands.

This alternative evaluates the modification of the existing lakes' operating high-water level to provide additional reclaimed water storage. Additional lake staging is estimated to provide the additional storage volume as presented in **Table 2-2** below. Based upon the documented conditions, the City needs approximately 41 MG of additional reclaimed water storage to have avoided the D-001 flow violations summarized in the subject CO.

FIGURE 2-2: EXISTING LAKE STORAGE RESERVOIR SYSTEM

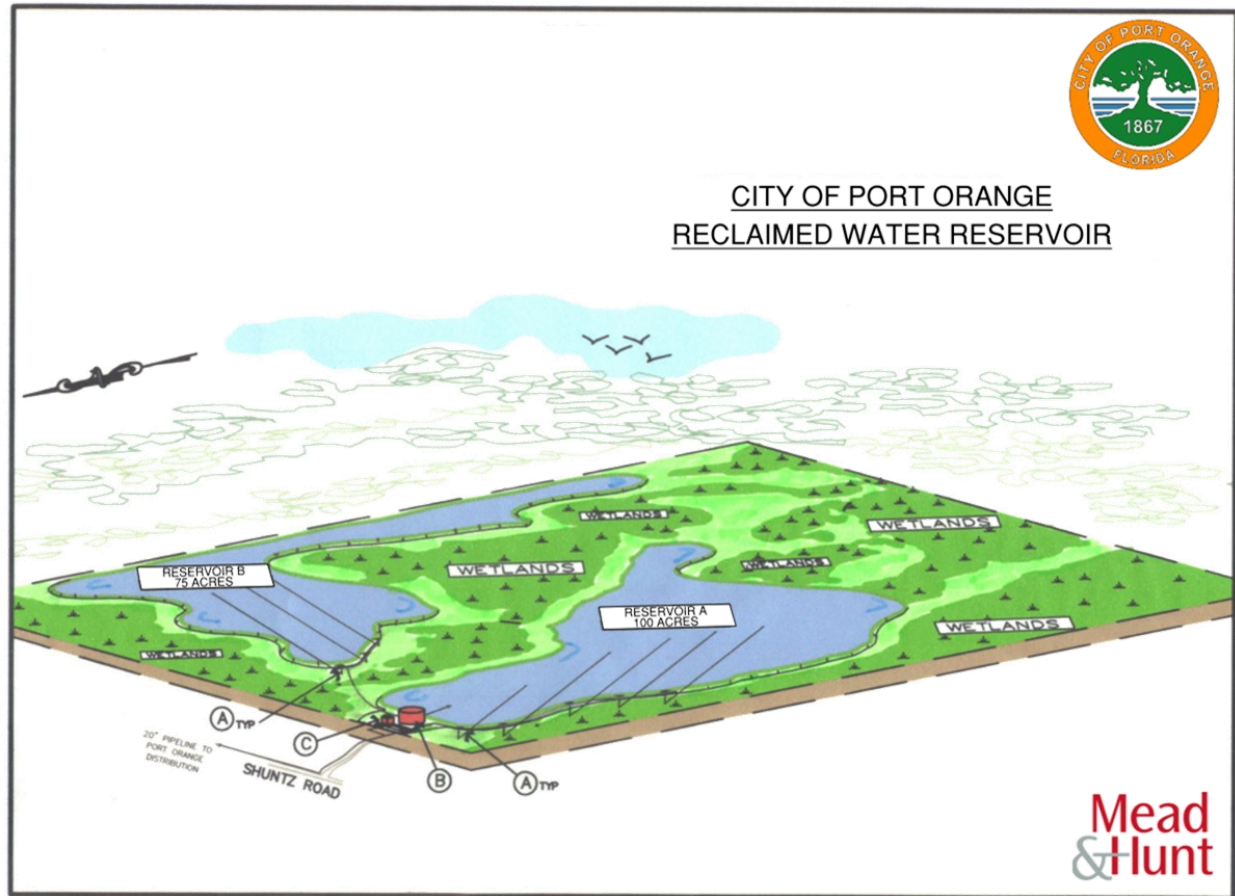


TABLE 2-2: ALTERNATIVE 1 - EXISTING LAKE RESERVOIR ADDITIONAL STORAGE VOLUME

Additional Staging (ft)	Lake A Additional Storage Volume (MG)	Lake B Additional Storage Volume (MG)	Total Additional Storage Volume (MG)
0.25	8,146,280	6,109,710	14,255,990
0.50	16,292,550	12,219,410	28,511,960
0.75	24,438,830	18,329,120	42,767,950
1.00	32,585,100	24,438,830	57,023,930
1.25	40,731,380	30,548,530	71,279,910

Existing as-builts show Lake A and Lake B to have a top of berm elevation of 44.0 ft NGVD and 43.0 ft NGVD respectively. Documentation indicates the analysis of the reservoir system was based on Lake A operating at a high-water level of 40.0 NGVD. Based upon these elevations, Lake A has approximately 4 ft of freeboard between the design high water operating level and the top of berm. Operating the reservoirs with 1-ft of additional staging would provide approximately 57 MG of additional reclaimed water storage.

The following changes are anticipated as necessary to accommodate the additional reclaimed water storage proposed:

- Earthwork to modify the berm height of Lake B to Elevation 44.0 ft NGVD (match Lake A).
- Operation of Lake A and Lake B to accommodate an additional 1 ft of storage.

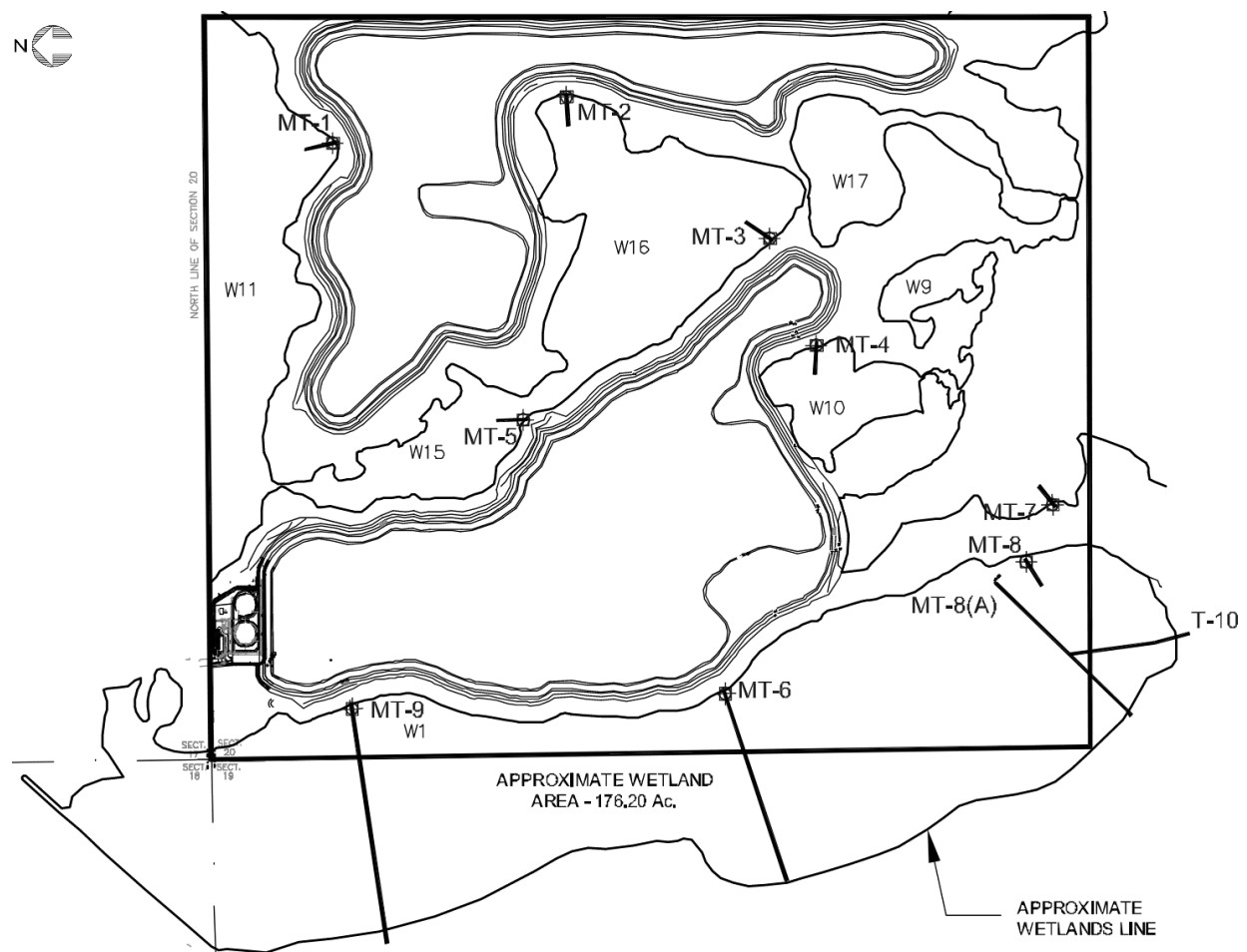
- Survey of existing drainage and control structures and make modifications as necessary.

Detailed engineering analysis is necessary prior to proceeding with requisite permit modifications. The following preliminary investigation would be executed to determine wetland impacts and obtain the necessary support documents to meet permitting requirements:

- Reservoir modeling during dry and wet weather events to evaluate reservoir water balance and wetland impacts
- Hydrogeologic evaluation for groundwater impacts and infiltration estimates
- Geotechnical assessment including berm stability analysis
- Survey data of existing drainage and outfall structures

Preliminary analysis of the reservoir area through the existing eleven (11) hydrologic monitoring wells show no apparent existing negative impacts to the wetlands (**Appendix C**). The locations of these monitoring stations are depicted in **Figure 2-3** below (courtesy of BCS, 2011).

FIGURE 2-3: EXISTING HYDROLOGIC MONITORING STATIONS



The Class 5 Engineers Opinion of Probable Construction Cost (EOPCC) for Alternative 1 is shown in **Table 2-3** below and estimates approximately \$1.2 million dollars is needed to complete this alternative. It should be noted that permitting requirements are anticipated through the Army Corps of Engineers (ACOE), FDEP, and Saint Johns River Water Management District (SJRWMD), impacting both the fee and schedule of this alternative.

TABLE 2-3: ALTERNATIVE 1 - OPERATIONAL & EARTHWORK CHANGES TO EXISTING RESERVOIR EOPCC

Item	Dollars
Preliminary Investigation ⁽³⁾	\$85,000
Engineering Design Services ⁽⁴⁾	\$80,000
Construction ⁽⁵⁾	\$1,000,000
TOTAL PROJECT COST	\$1,165,000

Notes:

(1) Values are presented in 2022 USD

(2) Estimate is based on Class 5 Level EOPCC

(3) Includes geotechnical, hydrogeologic, preliminary reservoir modeling, survey and consulting fee

(4) Includes permitting assistance, permitting fees and survey

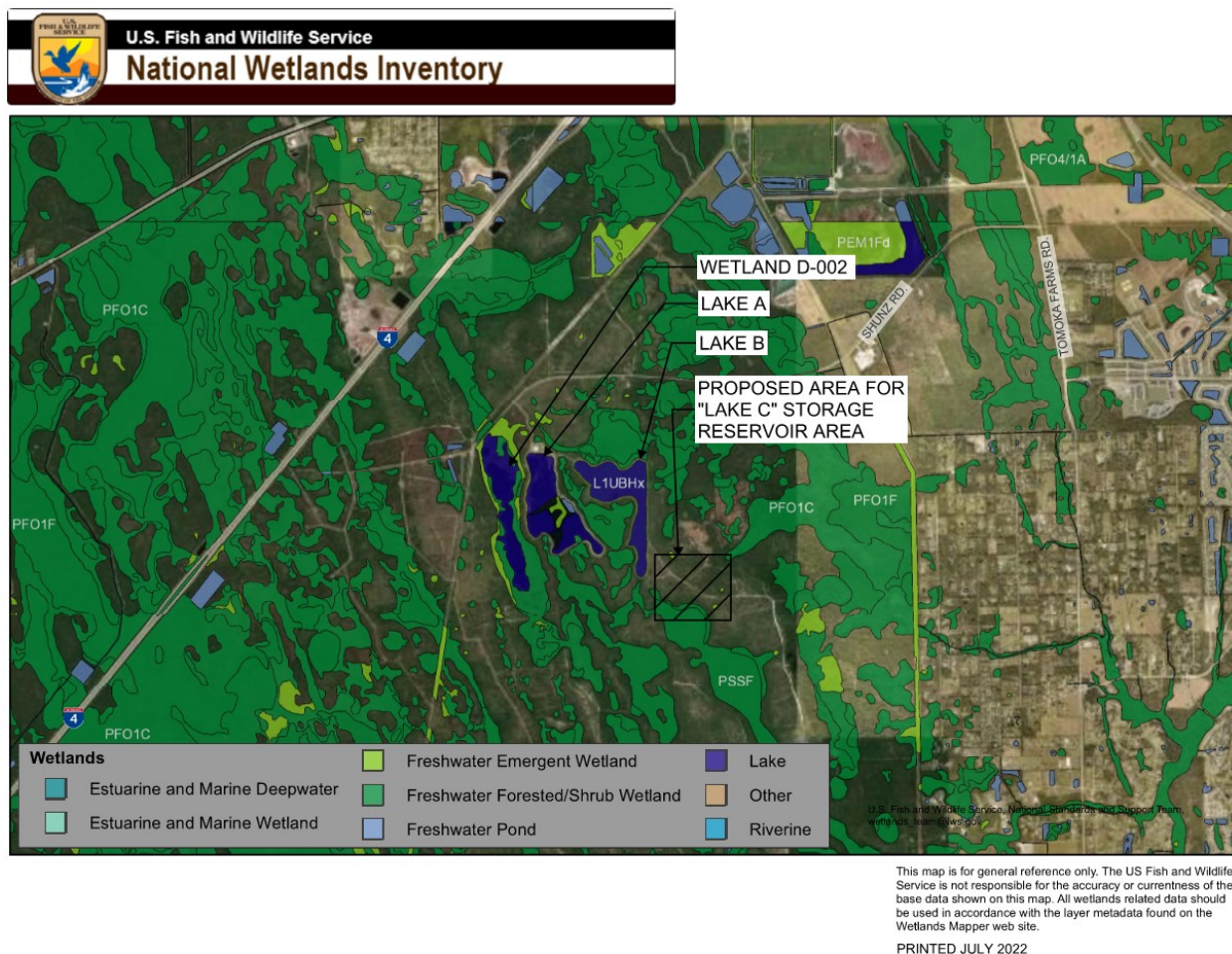
(5) Includes 20% Contingency

2.1.2 Alternative 2: Construction of New Reclaimed Lake for Additional Storage

This alternative evaluates the addition of a new lake reservoir for reclaimed water storage, referred to as Lake C herein. The City has identified the preliminary location of proposed Lake C on a City owned property southwest of the existing lake storage reservoirs, as shown in **Figure 2-4** below.

Alternative 2 could potentially provide the City with 50 MG to 60 MG of reclaimed water storage, depending upon the selected area and depth of Lake C. Due to the large reclaimed water storage potential of Lake C, this alternative may also serve as additional storage as the plant flow increases.

FIGURE 2-4: ALTERNATIVE 2 - PROPOSED LAKE C LOCATION



National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Preliminary investigation of this alternative is recommended to include the following:

- Reservoir modeling during dry and wet weather events to evaluate reservoir water balance, wetland impacts, and connection to the existing lake reservoirs and wetland system
- Hydrogeologic evaluation for groundwater impacts and infiltration estimates
- Environmental assessment and wetland delineation
- Geotechnical assessment to be utilized by the hydrogeologic evaluation
- Survey data to be utilized by the reservoir modeling and hydrogeologic evaluation

The site, similar to Lake A and Lake B's native site, has multiple wetlands but also includes a notable amount of uplands. This existing wetland system will require the Lake C alternative to include extensive permitting efforts (with FDEP, SJRWMD, and ACOE) and wetland mitigation, impacting both the fee and schedule of this alternative. This option also would require the City to install additional monitoring wells, continued monitoring upon operation, and significant earthwork. The earthwork is however anticipated to yield revenue from the resulting borrow, thereby reducing the overall project cost.

The Class 5 EOPCC is shown in **Table 2-4** below and estimates approximately \$6.2 million dollars is needed to complete this alternative. The City may be eligible to reduce the project costs presented through joint funding efforts with SJRWMD (as previously obtained for Lake A and Lake B).

TABLE 2-4: ALTERNATIVE 2 - NEW LAKE STORAGE RESERVOIR EOPCC

Item	Dollars
Preliminary Investigation ⁽³⁾	\$132,000
Engineering Design Services ⁽⁴⁾	\$283,000
Construction ⁽⁵⁾	\$4,700,000
TOTAL PROJECT COST	\$5,115,000

Notes:

- (1) Values are presented in 2022 USD
- (2) Estimate is based on Class 5 Level EOPCC. Bid data from the construction of Lake A and B were evaluated
- (3) Includes geotechnical, hydrogeologic, preliminary reservoir modeling, biologist, survey and consulting fee
- (4) Includes permitting assistance and permitting fees. Does not include bidding and construction inspection services.
- (5) Includes 20% Contingency and assumes \$1,000,000 in borrow pit soil deductive alternate
- (6) Estimate does not include operational costs such as well monitoring upon operation

2.1.3 Alternative 3: Construction of a Class I Municipal Deep Injection Well for Excess Reclaimed Water Demand Disposal

This alternative evaluates the construction of a new Underground Injection Control (UIC) well at the RDHRWP to provide a reliable effluent disposal option for excess reclaimed water when PAR demands (R-001) have been exhausted. Mead & Hunt retained ASRus, LLC (ASRus) to provide professional hydrogeological services for this alternative. The following three (3) UIC well types were evaluated by ASRus and shown in **Figure 2-5** and **Figure 2-6** (courtesy of ASRus, 2022):

- Alternative 3.1: Aquifer Storage Recovery (ASR) Well into the Upper Floridan Aquifer (UFA)
- Alternative 3.2: Class V, Group 3 Aquifer Recharge (AR) Well into the UFA
- Alternative 3.3: Class I Municipal Deep Injection Well (DIW) into the Lower Floridan Aquifer (LFA)

2.1.3.1 ASR Well, AR Well, and DIW Comparison

Many utilities are looking to permitted UIC wells to provide alternative effluent management solutions. ASR wells provide benefits through storage and recovery of the reuse water from the same well, operating within the freshwater bubble created through storage. AR wells provide benefits through restoration of depleted aquifer levels and mitigating saltwater intrusion. The SJRWMD may allow recovery of a portion of the water recharged, often up to 90-percent, through separate recovery wells. The recovery potential discussed in the ASR and AR well options can be used to supplement the PAR during dry season.

ASR and AR well options are typically viewed as beneficial reuse projects to local water resources. These types of well are subject to meeting primary drinking water standards due to their depth and location of discharge. Secondary drinking water standards may be applicable dependent upon the native groundwater water quality.

DIWs also provide similar UIC effluent management but at much lower aquifer depths and are considered effluent disposal without beneficial reuse (storage and recovery or recharge). DIWs are not subject to drinking water standards but must comply with high level disinfection requirements. There are currently no established UIC wells in the LFA in Volusia County.

A detailed preliminary desktop evaluation, including comparison of the three (3) UIC alternatives, is provided by ASRus in **Appendix D**

FIGURE 2-5: ALTERNATIVE 3.1 ASR WELL OR ALTERNATIVE 3.2 AR WELL CONSTRUCTION

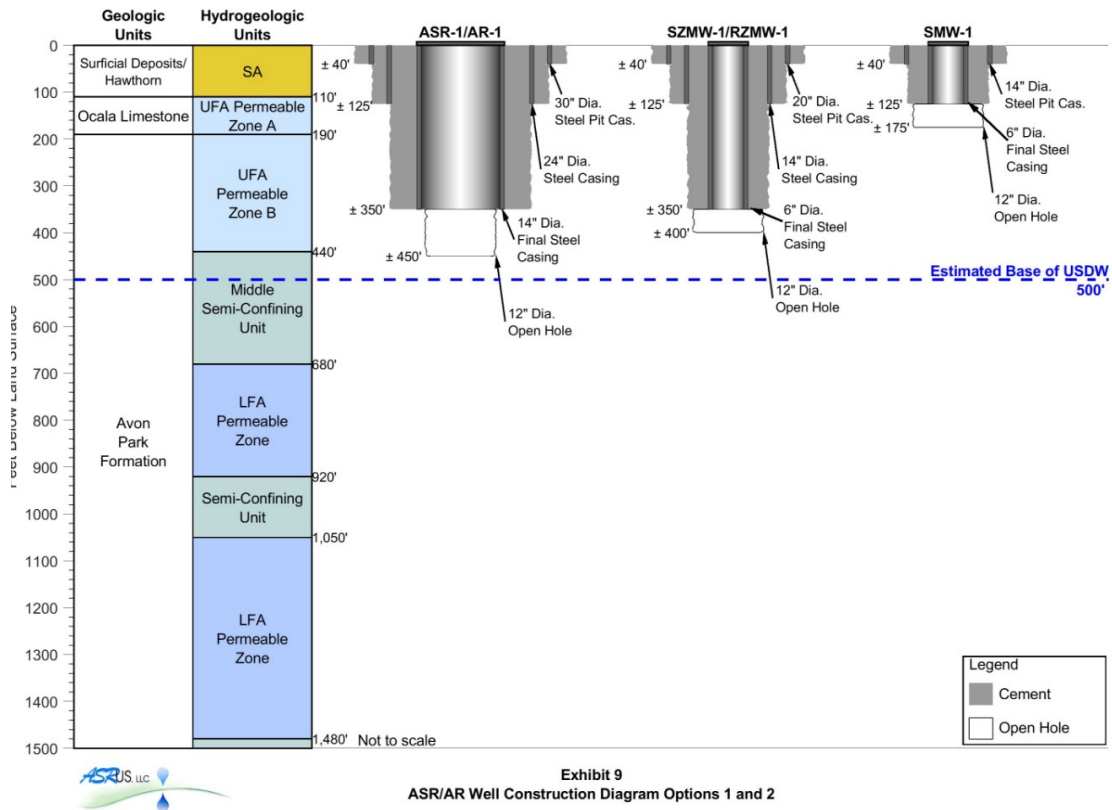
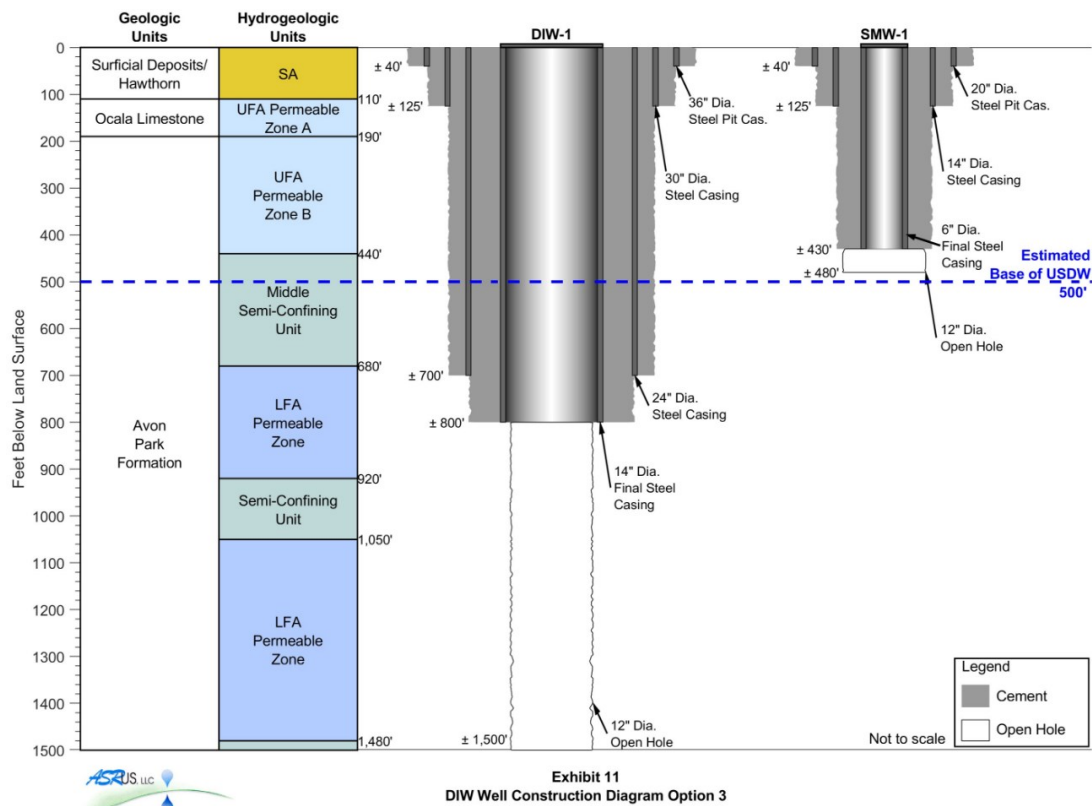


FIGURE 2-6: ALTERNATIVE 3.3 DIW CONSTRUCTION



The three (3) UIC alternatives presented generally vary by diameter of well casing, depth the reclaimed water is injected, and the injected reclaimed water quality requirements. The following summarizes the conditions that determine these factors:

- Generally, the native groundwater's total dissolved solids (TDS) concentration will determine the injected reclaimed water quality requirements. Lower native groundwater TDS concentrations typically require more stringent injected reclaimed water quality requirements. If the groundwater is at or above 10,000 mg/L TDS, the ground water is not considered an underground source of drinking water (USDW) and therefore not subject to drinking water standards.
- An exploratory well, later to serve as the permitted UIC well, is required to identify the native groundwater TDS at the desired depth of injection. The ASRus report (**Appendix D**) assumes the base of the USDW to be approximately -500 ft NGVD near the RDHRWP.
- Proximity to public drinking water wells will also impact the ability to inject into the UFA (Alternative 3.1 and 3.2). Preliminary well inventory research is provided in **Appendix D** and shows no existing users that will impact the UIC options presented in this section.

A brief summary comparing the three (3) UIC alternatives is presented in **Table 2-5** below.

TABLE 2-5: ALTERNATIVE 3 - ASR, AR WELL & DIW AT RDHRWP COMPARISON SUMMARY

Option	Well Depth (ft)	Pros	Cons
Alternative 3.1 ASR	350 – 450	• Shallower drilling/lower construction costs • Beneficial reuse through recovery • Funding opportunities	• Potential storage inefficiencies • RDHRWP reclaimed water quality concerns: DO, TN and DBPs • Increased RDHRWP operational costs to meet higher reclaimed water quality requirements ⁽¹⁾ • Requires 2 monitoring wells
Alternative 3.2 AR	350 – 450	• Shallower drilling/lower construction costs • Beneficial reuse through aquifer recharge • Potential beneficial reuse through recovery (up to 90%) • Funding opportunities	• Separate recovery well required if seeking recovery • RDHRWP reclaimed water quality concerns: DO, TN and DBPs • Increased RDHRWP operational costs to meet higher reclaimed water quality requirements ⁽¹⁾ • Requires 2 monitoring wells
Alternative 3.3 DIW	1,400	• Lower reclaimed water quality requirements ⁽²⁾ • Requires 1 monitoring well • Less permitting challenges • Reduced potential UFA impacts	• No beneficial recovery or recharge • No funding opportunities • Deeper drilling/higher construction costs • Potential upward migration into the UFA

Notes:

(1) Primary drinking water standards (DWS). Native groundwater TDS and depth may be subject to additional DWS requirements.

(2) High level disinfection standards

2.1.3.2 UIC Recommendations

The 12-month usage projection previously submitted to FDEP revealed that the City required an additional 1.0 MGD AADF of reclaimed water demand to reliably maintain a surface water discharge below the permitted limit. The proposed UIC in this alternative is proposed to provide a targeted flow rate of 1.0 to 2.0 MGD AADF, sufficiently meeting and exceeding the requirements of the subject CO. Unlike the previous discussed alternatives, the UIC alternative would not be subject to rainfall impacts.

Additional funding research and preliminary application coordination is necessary prior to providing final recommendation of the UIC options. One example of potential funding includes H.R. 3684 – Infrastructure Investment and Jobs Act (IIJA), also widely known as the “Infrastructure Bill,” includes AR and ASR project funding from fiscal year (FY) 2022 through FY 2026:

- Section 50205 (Clean Water Infrastructure Resiliency & Sustainability Program): \$125 million available in funding for AR and ASR projects (\$25 million per FY)
- Section 50222 (Enhanced Aquifer Use & Recharge): \$25 million available in funding for AR and ASR projects (\$5 million per FY)
- Section 50203 (Pilot Program for Alternative Water Source Projects): \$125 million available in funding if aquifer recovery is utilized for potable water reuse (\$25 million per FY)

Should no funding sources be available to assist the City, DIW (Alternative 3.3) into the LFA is recommended due to two primary reasons (in addition to costs):

- 1) The unknown TDS concentrations of the groundwater in the UFA and therefore unknown viability of an ASR and AR well installation. Permitting for ASR and AR wells have become increasingly difficult, and these options come with increased risks of drilling into a non-permittable aquifer layer.
- 2) DIW reclaimed water treatment requirements (high level disinfection) is significantly less than ASR and AR wells (subject to primary drinking water standards and potentially secondary drinking water standards). ASR and AR well requirements would require significant process changes to the RDHRWP, including increased operations and maintenance costs to reduce current TN and DBP concentrations.

All UIC options discussed in this report will require extensive permitting approval and anticipated to take approximately three (3) years through construction. The City will be required to install monitoring well(s) and continue monitoring upon operation.

The Class 5 EOPCC is shown in **Table 2-6** below and estimates approximately \$4.7 to \$8.0 million dollars is needed to complete this alternative. It is anticipated that the City can reduce ASR (Alternative 3.1) and AR (Alternative 3.2) project costs through potential joint funding efforts.

TABLE 2-6: ALTERNATIVE 3.1, 3.2, AND 3.2 - UIC OPTIONS EOPCC

Item	Alternative 3.1 ASR Costs (dollars)	Alternative 3.2 AR Costs (dollars)	Alternative 3.3 DIW Costs (dollars)
Preliminary Investigation ⁽³⁾	\$100,000	\$100,000	\$100,000
Engineering Design Services	\$700,000	\$600,000	\$900,000
Construction ⁽⁴⁾	\$5,000,000	\$4,000,000	\$7,000,000
Total Costs	\$5,800,000	\$4,700,000	\$8,000,000

Notes:

- (1) Values are presented in 2022 USD
- (2) Estimate is based on Class 5 Level EOPCC. Costs are based on 2022 Effluent Management Alternatives Investigation for the City of Port Orange by ASRus, LLC
- (3) Includes hydrogeologic evaluation, well design, drilling specification, permitting, and funding investigation
- (4) Includes exploratory test well. Does not include bidding and construction inspection services.
- (5) Estimate does not include operational costs such as well operation, well monitoring, and meeting permitted water quality requirements. Estimate does not include joint funding opportunities.

2.1.4 Alternative 4: Inflow & Infiltration Abatement for Reduced Effluent Production

The City's gravity sewer collection system includes approximately 5,550 manholes and 312 miles of gravity sewer mains. The gravity sewer collection system, along with the City's lift stations, provide the RDHRWP with wastewater influent flows. These influent flows are comprised of three (3) primary components:

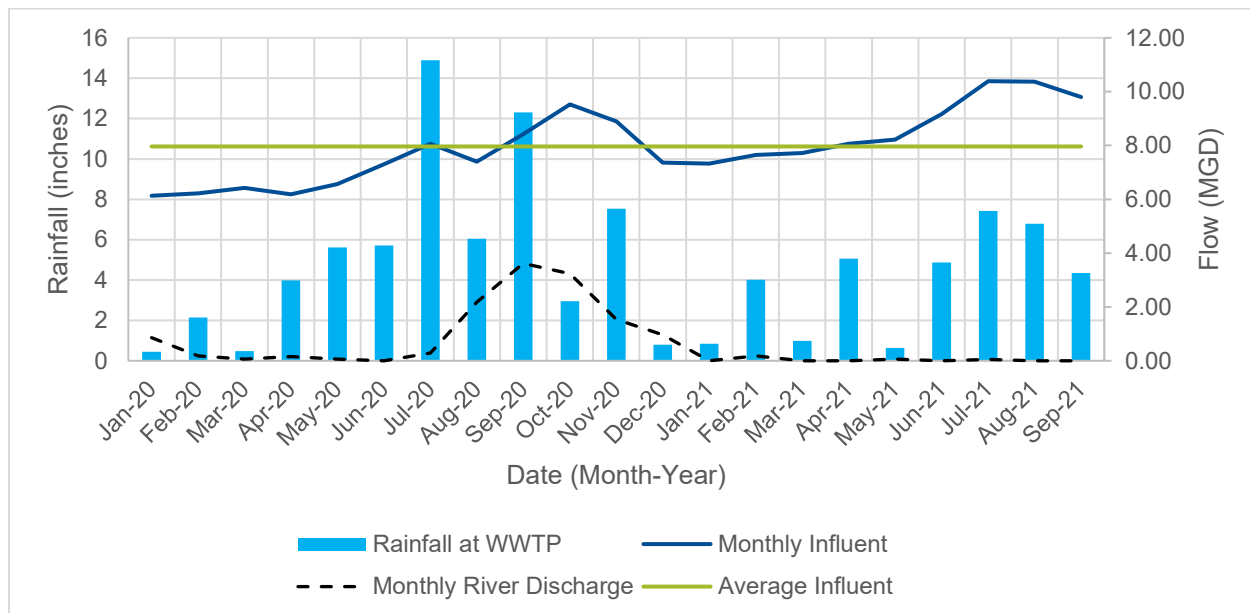
- Base sanitary sewer flows: contributed from the collection system users' wastewater.
- Ground water infiltration (infiltration): groundwater that enters the collection system, typically through gravity pipes and manholes with physical defects.
- Rainfall inflow (inflow): stormwater that enters the collection system, typically through uncapped cleanouts and unidentified cross connections.

Preliminary analysis of the City's influent wastewater flow rates and rainfall data from January 2020 through September 2021 shows a significant increase in influent flows during significant wet weather events. The spikes in the influent flows are suspected to be primarily due to inflow and infiltration (I&I). Inflow is typically identifiable through strong correlations of rainfall data within the same time step. Infiltration is typically identifiable through increased flows that persist after the rain event. Inflow is suspected to be the primary source of the influent flow spikes during significant wet weather events based on the preliminary evaluation and correlation to rainfall data shown in **Figure 2-7** below.

This alternative includes a proposed I&I abatement program that is in addition to the City's ongoing and continued efforts to reduce I&I. The City has committed \$750,000 for the past three (3) fiscal years (FY) for gravity sewer main cured in place pipe (CIPP) installation. In addition, \$1.5 million in gravity sewer main CIPP installation is budgeted for this upcoming FY.

Alternative 4 has the potential to further reduce the wet weather flow rates, when reclaimed water demand is at its lowest. This provides the potential to have a significant return on investment (dependent upon the findings). Preliminary analysis estimates Alternative 4 can potentially reduce the wet weather flow rates up to 1.0 MGD AADF, potentially meeting or exceeding the requirements of the subject CO. Additional analysis is necessary to verify these estimates.

FIGURE 2-7: PRELIMINARY INFLOW & INFILTRATION ANALYSIS



Notes:

(1) Influent AADF in 2020 and 2021 was calculated using the total effluent AADF due to inaccurate readings from the WWTP's influent flow meter.

The following recommendations were prepared to identify where the excessive stormwater related inflow and associated rainfall dependent infiltration are suspected to enter the City's gravity sewer collection system. Due to the schedule and costs associated with a full scale I&I Abatement Program, an immediate corrective actions (ICA) plan is presented in **Table 2-7** to expeditiously address the subject CO.

TABLE 2-7: ALTERNATIVE 4.1 - I&I ABATEMENT PROGRAM - IMMEDIATE CORRECTIVE ACTIONS (ICA)

ICA Phase	Anticipated Timeline (months)	Details
1	1.5	Data collection and evaluation of: • lift station run times • collection system flow meter data • daily influent flow data • historical population growth • rain gauge data • estimate base sanitary flow (BSF)
2	1.5	Evaluation of ICA Phase 1 data to determine: • identify lift station service areas with evidence of excessing I&I • estimate I&I reduction potential • prioritize basin inspections
3	2.5	Smoke test basins identified in ICA Phase 2 (up to 10 business days of field work) and provide repair recommendations
4	6 ⁽²⁾	Eliminate cross connections and install clean out caps identified in ICA Phase 3
5	3	Post I&I abatement data collection and comparison (Repeat ICA Phase 1 and ICA Phase 2)

Notes:

(1) Phase 1 and Phase 2 can occur simultaneously

(2) Duration dependent upon ICA Phase 3 recommendations

Should insufficient I&I be eliminated in Alternative 4.1 or if the City would like to continue with a full scale I&I abatement program, the recommendations outlined in **Table 2-8** have been provided. The recommended full scale I&I abatement program is expected to take two (2) to seven (7) years dependent upon the results in each phase.

TABLE 2-8: ALTERNATIVE 4.2 - I&I ABATEMENT PROGRAM - FULL SCALE PROGRAM

Phase	Name	Activities
1	Estimate I&I	• Install flow meters and evaluate flow monitoring data • Install rainfall gauges and evaluate rainfall data • Install piezometers and evaluate groundwater data • Tidal influence evaluation • Chloride testing (for coastal system) • Evaluate lift station run times • Evaluate groundwater data • System hydraulic capacity and known “bottleneck” evaluations
2	Preliminary Inspections	• Smoke testing to identify inflow • Manhole inspections and night flow isolations to identify infiltration
3	Targeted Inspections	• Dye water tracing and dye water flooding to identify inflow • CCTV testing to identify infiltration • Lateral inspections
4	I&I Abatement	• Point repairs • Cured in place pipe (CIPP) • Cross connection corrections • Replacements
5	Post Abatement I&I Estimates	• Repeat Phase 1 • Document I&I reduction

Notes:

- (1) Phase 1, 2, 3, and 5 should occur during wet season to capture significant wet weather events.
- (2) Phases will dependent upon the results of the prior phases of work.

The Class 5 EOPCC for Alternative 4.1 and Alternative 4.2 is shown in **Table 2-9** and **Table 2-10** respectively. An estimated \$320,000 dollars is needed to complete the Alternative 4.1 I&I Abatement Program (ICA). An estimated \$5.24 million dollars is needed to complete the Alternative 4.2 I&I Abatement Program (full scale). Due to the phased approach of the I&I abatement plan, the EOPCCs will vary dependent upon the findings in Phase 1, 2, and 3.

Alternative 4.2 may be eligible for a 50-percent funding match through the FDEP Wastewater Grant Program (WWGP). The application for this funding is due on August 15, 2022.

TABLE 2-9: ALTERNATIVE 4.1 - I&I ABATEMENT PROGRAM – ICA EOPCC

Item	Dollars
Preliminary Investigation ⁽³⁾	\$75,000
Design Services	\$45,000
Construction ⁽⁴⁾	\$200,000
TOTAL PRELIMINARY INVESTIGATION	\$320,000

(1) Values are presented in 2022 USD

(2) Estimate is based on Class 5 Level EOPCC. Estimates are dependent upon prior phase results and estimated provided is a budgetary placeholder.

(3) Includes ICA Phases 1, 2, and 3 and 10 business days of smoke testing field services.

(4) Includes ICA Phase 4.

TABLE 2-10: ALTERNATIVE 4.2 - I&I ABATEMENT PROGRAM – FULL SCALE EOPCC

Item	Dollars
Preliminary Investigation ⁽³⁾	\$1,035,000
Engineering Design Services ⁽⁴⁾	\$200,000
Construction ⁽⁵⁾	\$4,000,000
TOTAL PROJECT COST	\$5,235,000

Notes:

(1) Values are presented in 2022 USD

(2) Estimate is based on Class 5 Level EOPCC. Estimates are dependent upon prior phase results and estimated provided is a budgetary placeholder.

(3) Includes Phase 1, 2, and 3 services as outlined in Table 2-8. Based on Phase 1 at \$270k, Phase 2 at \$450k, and Phase 3 at \$240k.

(4) Pipeline point repairs and replacement included.

(5) Pipeline point repair, replacement, and CIPP included.

(6) Estimate does not include RDHRWP treatment and capacity savings.

22 Effluent Disposal (D-001) Corrective Action Plan

Section 2.1 outlines the various effluent storage, disposal, and reduction alternatives for incorporation into the Corrective Action Plan to address the subject CO and maintain operating permit compliance with FDEP, including during wet weather events. These alternatives include:

- Alternative 1 - Increase Reclaimed Storage Volume: Modifying existing Lake B reservoir with higher berms to match the Lake A berm, operate Lake A and Lake B at a higher water level, and modify existing control and drainage structures to accommodate the new hydraulic profile.
- Alternative 2 - Increase Reclaimed Storage Volume: Construct new reclaimed water lake storage reservoir (Lake C) and integrate with the existing lake storage reservoirs.
- Alternative 3 - Increase Effluent Disposal: implement new UIC through the construction of an ASR, AR Well, or DIW.
- Alternative 4.1 - Effluent Reduction: desktop analysis of available City and rain gauge data to immediately implement a limited but targeted I&I abatement program. Repairs anticipated include removal and repair of existing cross connections and installation of missing clean out caps.
- Alternative 4.2 - Effluent Reduction: implementation of a full scale I&I abatement program. Repairs anticipated include removal and repair of existing cross connections, gravity main rehabilitation and replacement, and manhole rehabilitation and replacement

The Class 5 EOPCC summary for each of the alternatives is summarized in **Table 2-11** below. These estimates are broken out by preliminary investigation, design services, and construction costs. It is important to note that the following items are not included in these estimates:

- Joint funding opportunities
- Operating costs for monitoring wells and sampling
- RDHRWP Operating savings from I&I abatement

- Bidding and construction services

TABLE 2-11: EFFLUENT MANAGEMENT ALTERNATIVES EOPCC SUMMARY

Alternative	Ref. Section	Preliminary Investigation (dollars)	Engineering Design Services (dollars)	Construction (dollars)	Total Project Cost (dollars)
1	2.1.1	\$85,000	\$80,000	\$1,000,000	\$1,165,000
2	2.1.2	\$132,000	\$283,000	\$4,700,000	\$5,115,000
3 ⁽³⁾	2.1.3	\$100,000	\$900,000	\$7,000,000	\$8,000,000
4.1	2.1.4	\$75,000	\$45,000	\$200,000	\$320,000
4.2	2.1.4	\$1,035,000	\$200,000	\$4,000,000	\$5,235,000

Notes:

(1) Values are presented in 2022 USD

(2) Estimate is based on Class 5 Level EOPCC. Estimate details are included in Section 2.1.

(3) Based on UIC DIW option.

Based upon the alternatives analysis in Section 2.1 and the EOPCC comparison in **Table 2-11**, the following corrective action plan is recommended to be implemented by the City.

- Alternative 1 – Additional Lake Reservoir Storage providing an estimated 57 MG of additional reclaimed water storage.
- Alternative 4.1 – Targeted I&I Abatement Program providing reduction in the wet weather wastewater influent flow rates. Flow rate reduction is dependent upon the program's findings but may provide reduction of flow rates up to 1.0 MGD.

The alternatives selected for implementation have the shortest anticipated lead times and are best suited to meet the Consent Order deadlines. The other alternatives not included in the Corrective Action Plan were removed based off process of elimination, as follows:

- Alternative 2 requires significant permitting hurdles and wetland mitigation. This alternative will be considered should Alternative 1 be unattainable.
- Alternative 3 requires significant permitting hurdles and many unknown variables. There is potential for the City to spend millions of dollars on drilling an exploratory well and result in no useable UIC well.
- Alternative 4.2 may not be necessary to reduce I&I flow rates to meet the CO effluent disposal requirement should Alternative 4.1 sufficiently reduces the flows. If Alternative 4.1 does not provide enough I&I reduction, the City may consider Alternative 4.2 if I&I is still suspected as a source of the excessive influent flow during wet weather events.

3. EFD-2 TSS Violation – Corrective Actions

The following section outlines the corrective actions the City will implement to address the Consent Order TSS violations associated with EFD-2, including the previously submitted corrective actions and the addition of the investigation and repair of the disc filter system's intake pipe.

3.1 Wetlands (EFD-2) TSS Corrective Action Plan

The existing treatment process provides TSS removal to meet the permitted limits prior to discharging to the two lakes upstream of the wetlands discharge point. Exceedance of the TSS limit occurs during the lake retention time and requires treatment prior to the wetland discharge point to ensure TSS limits are met. Corrective actions to optimize organic particle removal along with modifications and rehabilitation to the existing disc filter system are discussed below.

3.1.1 Optimization of Organic Particle Removal

The existing disc filter system, located at the wetlands discharge point, was designed to operate with the aluminum sulfate addition in the upstream flocculation tank, increasing the floc size of the organic particles and enhancing the TSS removal rate of the 10-micron disc filters. A particle size distribution study of the lake water was performed in 2019, provided in Appendix E, revealed that 28-percent of the organic particles are 5 microns or larger and 16-percent of the organic particles are 10 microns or larger.

Based on the source water's organics particle size distribution and the disc filter size, the corrective action of changing the disc filter sizing from 10-micron to 5-micron is recommended to increase the organics capture rate and reduce the TSS concentrations:

3.1.2 Disc Filter Modifications and Rehabilitation

The existing disc filter located at the wetlands discharge point was identified for various repairs and rehabilitation. A summary of the recommended repairs and rehabilitation include:

- Remove sand and clean filters, backwash lines, and backwash spray nozzles.
 - Upon completion of cleaning, reinspect existing backwash lines, backwash pump, and backwash spray nozzles. These items may require repair or replacement.
- Replace existing pressure gauge
- Replace existing internal basket strainer
- Replace existing media panels (refer to 3.1.3)
- Installation of automatic canister greaser to automate maintenance

In addition to the repair and rehabilitation of the existing disc filters, the City has another Kruger disc filter at the RDHRWP that will be rehabilitated and relocated to the wetlands discharge point (EFD-2).

Installation of a parallel filter system will provide system redundancy and the ability to maintain a low hydraulic loading rate through each filter. A low hydraulic loading rate is directly correlated with high particle removal efficiency. A summary of the recommended repairs and rehabilitation to the existing disc filter to be relocated include:

- Replace existing media panels (refer to 3.1.3)
- Replace existing internal basket strainer
- Replace existing backwash nozzle assemblies
- Replace existing backwash pump

- Replace existing pressure gauge
- Replace existing drum bearings
- Install unit cover
- Installation of automatic canister greaser to automate maintenance

To maintain filter efficiency and longevity, the manufacturer recommends the following before taking a filter offline:

- Drain and backwash filter prior to taking offline.
- Backwash filter when returning to service.
- Initial in-situ chlorine cleaning may be warranted before returning filters to service if there are visible signs of biological growth/algae that may have occurred during the offline period.

3.1.3 Two Disc Filter Operation

Dependent upon the results of the jar testing and additional filter manufacturer coordination, the disc filters will be run in parallel (**Figure 3-1**) or in series (**Figure 3-2**). Disc filter operational schemes are summarized in **Table 3-1** and will be selected during detailed design to ensure compliance with operating permit the subject CO.

TABLE 3-1: DISC FILTER OPERATIONAL SCHEME OPTIONS

	Parallel Operation	In Series Operation
Pros	• Reduced filter loading rate & higher particle removal efficiency • Redundant filters when discharging to D-002	• Longer filter media panel service life
Cons	• Shorter filter media panel service life	• Higher filter loading rate & lower particle removal efficiency • Requires motorized valve(s) and valve logic • No redundant filters when discharging to D-002

FIGURE 3-1: PARALLEL DISC FILTER OPERATION

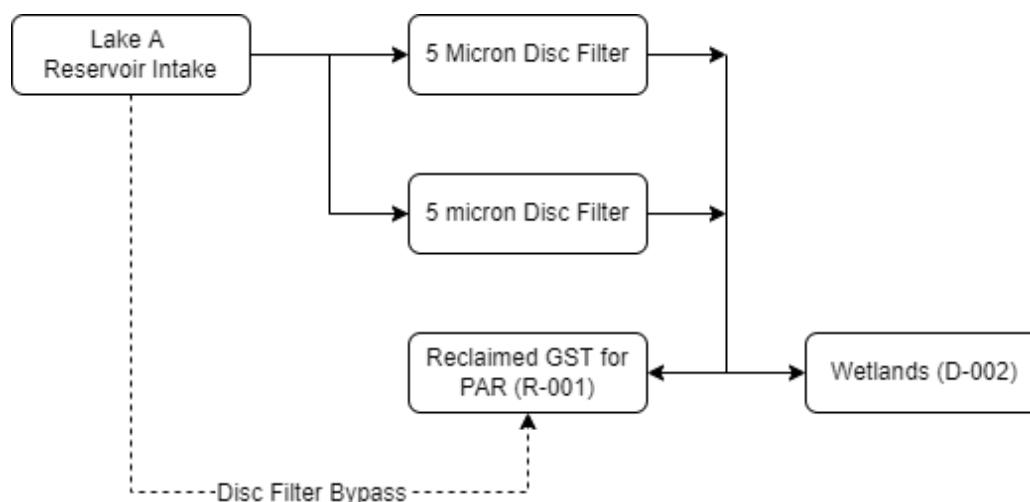
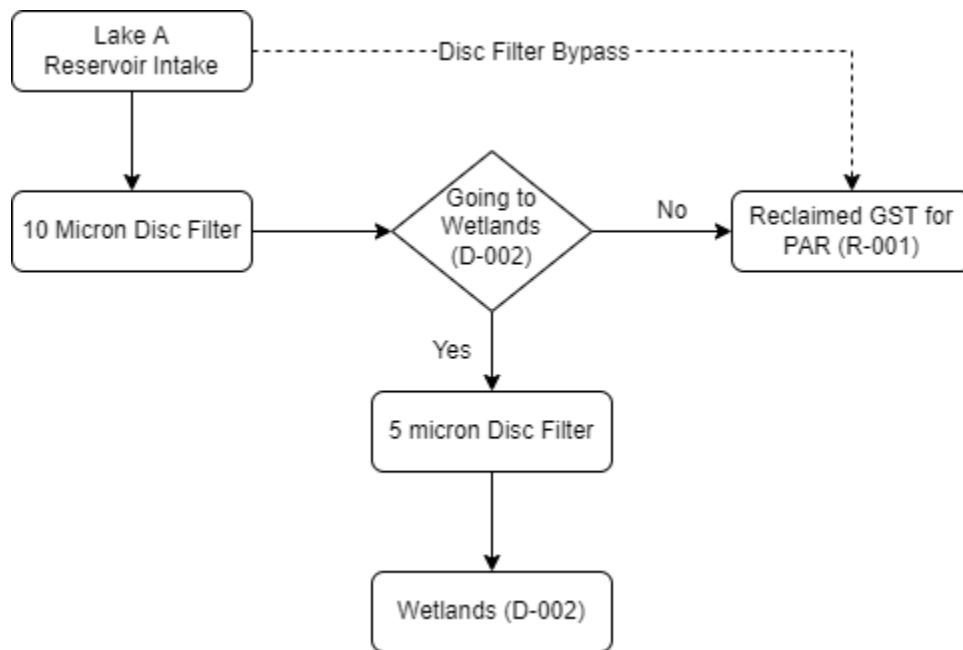


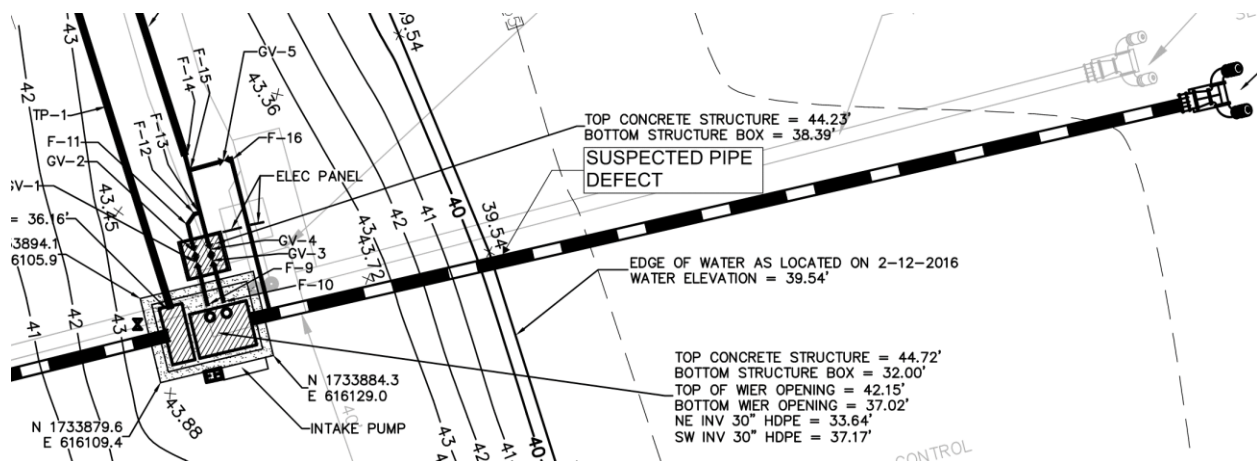
FIGURE 3-2: IN SERIES DISC FILTER OPERATION



3.1.4 Field Investigation and Intake Pipe Repair

The City began preliminary rehabilitation of the existing disc filters and resumed operation of the equipment to reduce the TSS at EFD-2. Shortly after operations began, the disc filters were found to be collecting sand, diminishing the performance of the TSS removal. It is suspected that the lake suction line, as shown in **Figure 3-3**, has a defect that is causing sand to enter the disc filters.

FIGURE 3-3: DISC FILTER SUCTION LINE FROM LAKE A



The suction line is known to have a deflection that is currently vented. The existing vents appear to be buried and are suspect to be allowing sand to enter the suction pipe. It is recommended the City will engage with a Contractor to excavate, dewater, and diagnose the sand issue and repair the intake line and/or vents as necessary.

3.1.5 Request for TSS Permit Limit Modification at EFD-2

The City's current operating permit requires the TSS limits presented in **Table 3-2** when discharging to the Halifax River (EFD-1) and the wetlands (EFD-2).

TABLE 3-2: SUMMARY PERMITTED FLOWS & TSS

Basis	Location	Limit	Unit
Monthly Average	EFD-1	20.0	mg/L
	EFD-2	5.0	mg/L
Weekly Average	EFD-1	45.0	mg/L
	EFD-2	7.5	mg/L
Daily Maximum	EFD-1	60.0	mg/L
	EFD-2	10.0	mg/L

Notes:

(1) EFD-1 is the Halifax River discharge monitoring site and EFD-2 is the wetlands discharge monitoring site.

Based upon the City's effluent discharge water quality at the RDHRWP and the organic particle size distribution report in **Appendix E**, the primary source of TSS in the lake reservoirs is naturally occurring organic matter and approximately 71-percent of the TSS particles present are less than 5 microns.

Traditional filtration techniques have difficulty removing organic TSS to concentrations below 5 mg/L and particles smaller than 5 microns (without significant chemical addition). Based upon the available industry filtration techniques and the desire to minimize potential chemical spills/addition to the wetlands, the City respectfully requests the TSS concentration limit at EFD-2 to be revised to 10 mg/L on a monthly and weekly basis.

4. Corrective Actions Report Summary

The City has compared various corrective actions in response to the violations and concerns pertaining to CO OCG No. 21-0734. This section is provided to summarize the CAR, the implementation schedules, and the corrective actions the City of Port Orange is planning to pursue:

4.1 D-001 Flow Violation

The City plans to pursue the following corrective actions to address the flow violation (D-001) in the subject CO:

- Modifying existing Lake B reservoir with higher berms to match the Lake A berm elevation, operate Lake A and Lake B at a higher water level, and modify existing control and drainage structures to accommodate the new hydraulic profile (Alternative 1).
- In addition to the City's ongoing and continued I&I abatement efforts (gravity sewer main CIPP), execution of a desktop analysis of available City and rain gauge data to expeditiously implement a limited but targeted I&I abatement program. Repairs anticipated include removal and repair of existing suspected cross connections and installation of missing clean out caps (Alternative 4.1).

The anticipated implementation schedule, presented in **Figure 4-1**, meets the deadline requirements of the subject CO. The other alternatives (Alternative 2, Alternative 3, and Alternative 4.2) were not included in the corrective actions plan at this time. These alternatives remain at the City's disposal should the corrective actions listed above insufficiently address the CO requirements.

4.2 EFD-2 TSS Violation

The City plans to pursue the following corrective actions to address the TSS violation (EFD-2) in the subject CO:

- Inspect and repair the existing lake intake pipe.
- Change disc filter sizing from 10-micron to 5-micron when discharging to the wetlands to increase organics capture rate.
- Rehabilitate the existing disc filter at the wetland discharge.
- Rehabilitate the existing disc filter at the City's RDHWRF and relocate to the wetland discharge. Investigate the disc filter arrangement in-series or in-parallel operations and arrange based upon the professional engineer's findings and recommendations.

In addition to the corrective actions above, the City respectfully requests the TSS concentration limit at EFD-2 to be revised to 10 mg/L on a monthly and weekly basis. This is primarily due to available industry standard filtration techniques for organic TSS to concentrations below 5 mg/L and the 71-percent particle distribution size of less than 5 microns. This request is also in an effort to prevent chemical addition upstream of the disc filters, minimizing potential chemical spills/addition to the wetlands.

The anticipated implementation schedule, presented in **Figure 4-2**, meets the deadline requirements of the subject CO.

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FIGURE 4-1: D-001 FLOW VIOLATION CORRECTIVE ACTIONS IMPLEMENTATION SCHEDULE

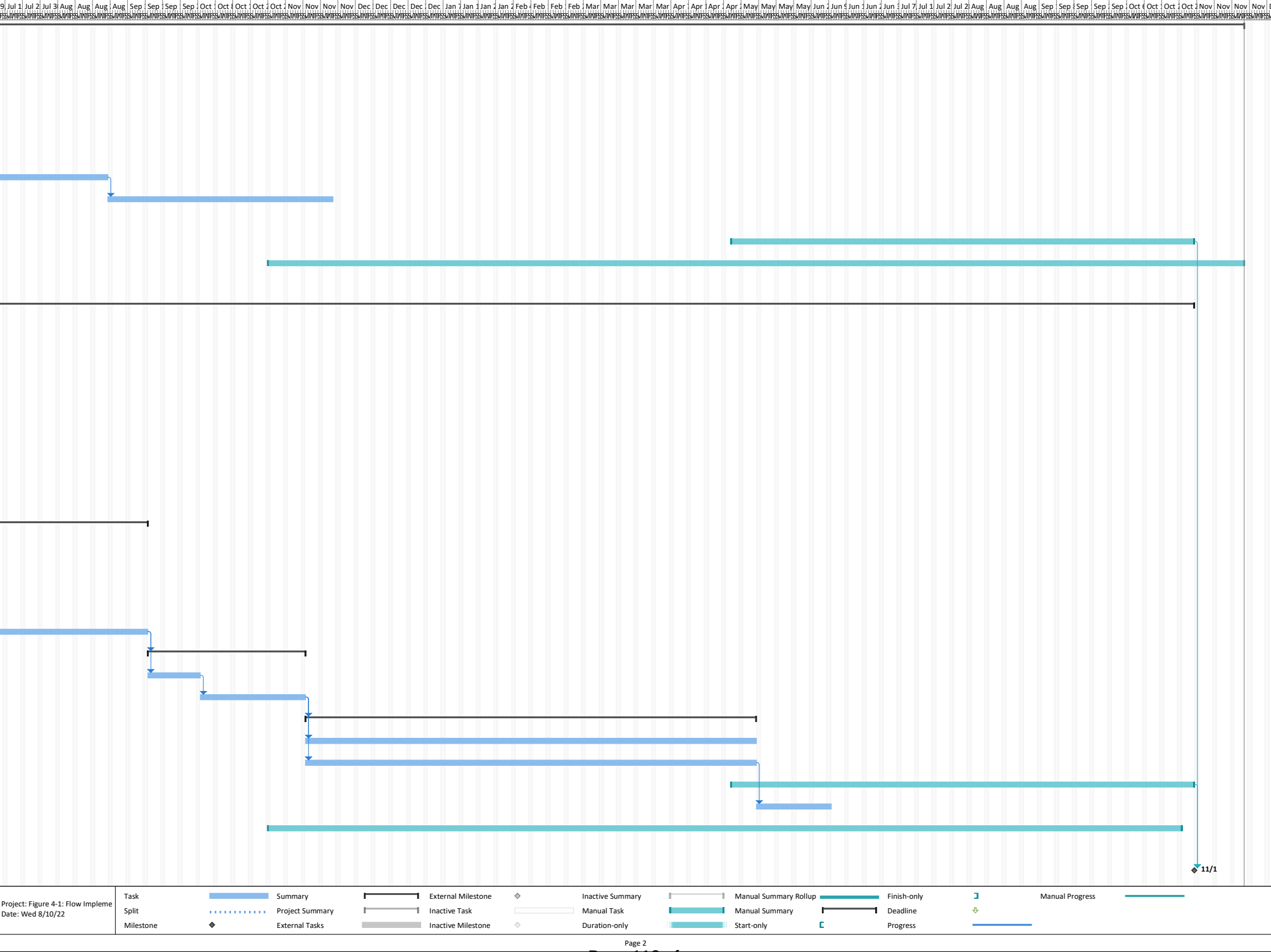
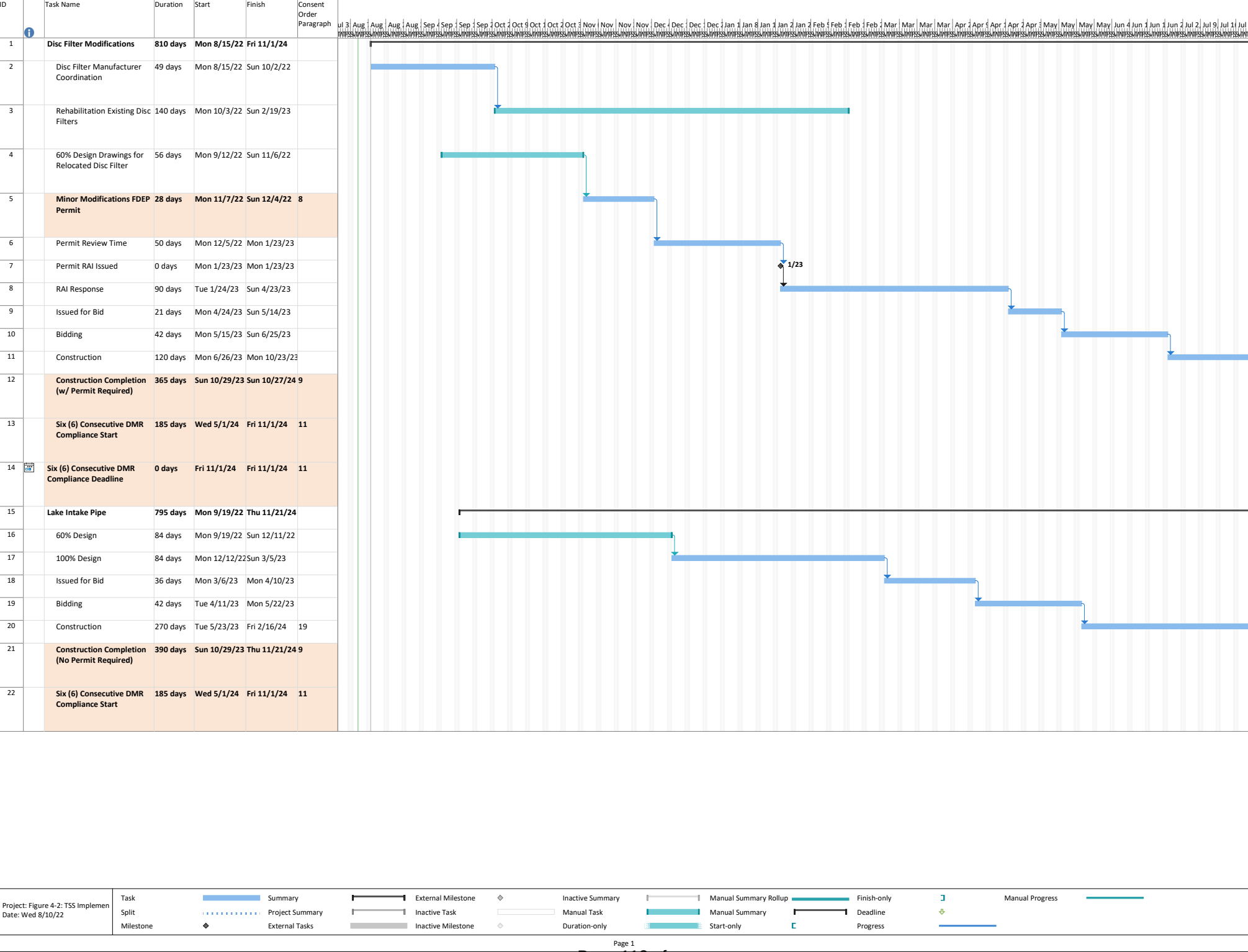
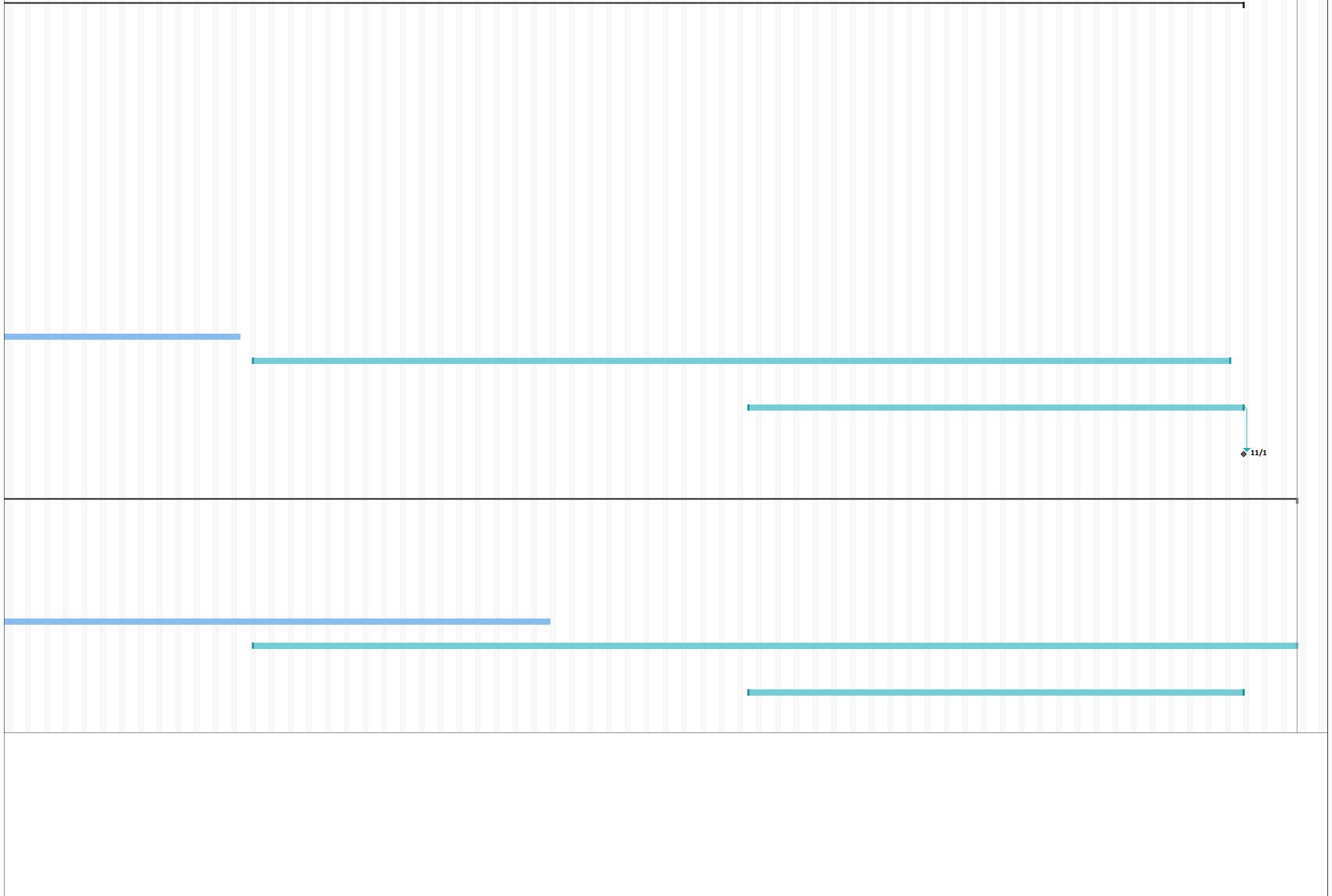


FIGURE 4-2: EFD-2 TSS VIOLATION CORRECTIVE ACTIONS IMPLEMENTATION SCHEDULE



[illegible]

Appendix A – Consent Order



FLORIDA DEPARTMENT OF Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

September 29, 2021

Wayne Clark, City Manager
City of Port Orange
1000 City Center Circle
Port Orange, FL 32129
WClark@port-orange.org

Re: Port Orange WRF
DW Facility ID # FL0020559
OGC Case #21-0734

Dear Mr. Clark:

Enclosed is the executed Consent Order to resolve the above referenced case. This copy is for your records.

Should you have any questions or comments, please contact Helena Dacenay at 407-897-4342 or via e-mail at Helena.Dacenay@FloridaDEP.gov.

Your cooperation in this matter will be appreciated.

Sincerely,

A handwritten signature in dark ink, appearing to read "AW", is written over a light blue horizontal line.

On behalf of:

Aaron Watkins
Director, Central District

Enclosure: Consent Order OGC#21-0734

cc: Lea Crandall, OGC
Zoey Carr, Central District
Daun Festa, Central District
Lynn Stevens, lstevens@port-orange.org
Steve Parnell, sparnell@port-orange.org
Christopher Wall, cwall@port-orange.org

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE OF FLORIDA DEPARTMENT)
OF ENVIRONMENTAL PROTECTION)
)
v.)
)
CITY OF PORT ORANGE)
_____)

IN THE OFFICE OF THE
CENTRAL DISTRICT

OGC FILE NO. 21-0734

CONSENT ORDER

This Consent Order (Order) is entered into between the State of Florida Department of Environmental Protection (Department) and City of Port Orange (Respondent) to reach settlement of certain matters at issue between the Department and Respondent.

The Department finds and Respondent admits the following:

1. The Department is the administrative agency of the State of Florida having the power and duty to protect Florida's air and water resources and to administer and enforce the provisions of Chapter 403, Florida Statutes (F.S.), and the rules promulgated and authorized in Title 62, Florida Administrative Code (F.A.C.). The Department has jurisdiction over the matters addressed in this Order.
2. Respondent is a person within the meaning of Section 403.031(5), F.S.
3. Respondent is the owner and is responsible for the operation of the Port Orange Water Reclamation Facility and its associated collection/transmission systems, a 12 million gallon per day (MGD) annual average daily flow (AADF) permitted capacity anoxic/oxic activated sludge advanced domestic wastewater plant that is authorized to discharge effluent to the Halifax River, a Class III Marine water, Spruce Creek Circle Drainage Ditch and Sandy Creek, Class III fresh waters, and a slow-rate public access reuse system (Facility). The Facility is operated under Wastewater Permit No. FL0020559 (Permit), which was issued on November 21, 2019 and will expire on November 20, 2024. The Facility is located at 817 Oak Street, Port Orange, in Volusia County, Florida (Property). Respondent owns the Property on which the Facility is located.

4. The Department finds that the following violations occurred:

a) TSS monthly averages reported at EFD-2 on the D-002 DMR for November 2020, January 2021, February 2021, March 2021, and April 2021 exceeded the permit limit of 5.0 mg/L.

b) TSS weekly averages reported at EFD-2 on the D-002 DMR for December 2020, January 2021, March 2021, April 2021, and May 2021 exceeded the permit limit of 7.5 mg/L.

c) TSS daily maximums reported at EFD-2 on the D-002 DMR for December 2020, January 2021, February 2021, March 2021, and April 2021 exceeded the permit limit of 10.0 mg/L, for any one sample.

d) The annual average flow reported for D-001 on DMRs for October 2020 through June 2021 exceeded the permitted flow annual average of 0.999 MGD.

Having reached a resolution of the matter Respondent and the Department mutually agree and it is

ORDERED:

5. Respondent shall comply with the following corrective actions within the stated time periods:

6. Within 120 days of the effective date of this Order, Respondent shall submit to the Department an updated evaluation conducted by a professional engineer registered in the state of Florida, of the Facility, including the effluent disposal system and associated collection system, to discover the cause or causes of the violations identified in paragraph 4 above.

7. Within 120 days of the effective date of this Order, Respondent shall submit to the Department a report including scope of work and schedule for corrective actions that will be completed per recommendations in the evaluation described in paragraph 6 above.

8. Within 30 days of the due date for submission of the design modification(s) in paragraph 7, Respondent shall submit a complete application for a Department wastewater permit to construct the modifications submitted pursuant to paragraph 7, if such a permit is required. In the event the Department requires additional information to process the permit

application Respondent shall provide a written response containing the information requested by the Department within 90 days of the date of the request.

9. Within 180 days after issuance of the wastewater permit referenced in paragraph 8 above, or if no permit is required, within 180 days of the approval of the design modification(s) in paragraph 7, Respondent shall complete construction of the modification(s) submitted pursuant to paragraph 7.

10. Within 30 days after completion of the construction, Respondent shall submit to the Department a Certification of Completion, prepared and sealed by a professional engineer registered in the State of Florida, stating that modifications to the Facility, effluent disposal system, and collection system have been constructed in accordance with the provisions of the Permit or, if no Permit is required the design modification(s) submitted pursuant to paragraph 7.

11. By November 1, 2022, or upon completion of corrective actions as provided per paragraph 7, Respondent shall demonstrate compliance by maintaining effluent discharge concentration at D-002 at or below the final TSS effluent limits for six consecutive calendar months and report results on the required DMRs.

12. Beginning the effective date of this Order and lasting through November 1, 2022, the facility is subject to the following interim limits for TSS and annual average flow at EFD-2 and FLW-2 respectively:

Parameter	Units	Max/Min	Limit	Statistical Basis	Monitoring Site
TSS (D-002 outfall)	mg/L	Max	15.0	Monthly average	EFD-2
TSS (D-002 outfall)	mg/L	Max	22.5	Weekly average	EFD-2
TSS (D-002 outfall)	mg/L	Max	30.0	Single sample	EFD-2
Flow (to river)	MGD	Max	2.0	Annual Average	FLW-2

13. Within 90 days of the effective date of this Order, Respondent shall submit to the Department a 12-month Usage Projection and Facility Plan with compiled flow data and detailed proactive measures that address the flow violations identified in 4(d) above.

14. By November 1, 2022, the sum of the annual average flow at D-001 and D-002 shall not exceed 0.999 MGD.

15. Every calendar quarter after the effective date of this Order and continuing until all corrective actions have been completed, Respondent shall submit to the Department a written report containing information about the status and progress of projects being completed under this Order, information about compliance or noncompliance with the applicable requirements of this Order, including construction requirements and effluent limitations, and any reasons for noncompliance. These reports shall also include a projection of the work Respondent will perform pursuant to this Order during the 12-month period which will follow the report. Respondent shall submit the reports to the Department within 30 days of the end of each quarter.

16. Notwithstanding the time periods described in the paragraphs above, Respondent shall complete all corrective actions required by paragraphs 5-12 within 2 years of the effective date of this Order and be in full compliance with Rule 62-620, F.A.C., regardless of any intervening events or alternative time frames imposed in this Order, other than those excused delays agreed to by the Department, as described in paragraph 23.

17. Within 30 days of the effective date of this Order, Respondent shall pay the Department \$7,750.00 in settlement of the regulatory matters addressed in this Order. This amount includes \$7,500.00 for civil penalties and \$250.00 for costs and expenses incurred by the Department during the investigation of this matter and the preparation and tracking of this Order. The civil penalty in this case includes 2 violations that each warrant a penalty of \$1,000.00 or more.

18. Respondent agrees to pay the Department stipulated penalties in the amount of \$1,000.00 per day for each and every day Respondent fails to timely comply with any of the requirements of paragraph(s) 5-13 of this Order. The Department may demand stipulated

penalties at any time after violations occur. Respondent shall pay stipulated penalties owed within 30 days of the Department's issuance of written demand for payment, and shall do so as further described in paragraph 19, below. Nothing in this paragraph shall prevent the Department from filing suit to specifically enforce any terms of this Order. Any stipulated penalties assessed under this paragraph shall be in addition to the civil penalties agreed to in paragraph 17 of this Order.

19. Respondent shall make all payments required by this Order by cashier's check, money order or on-line payment. Cashier's check or money order shall be made payable to the "Department of Environmental Protection" and shall include both the OGC number assigned to this Order and the notation "Water Quality Assurance Trust Fund." Online payments by e-check can be made by going to the DEP Business Portal at:

<http://www.fldepportal.com/go/pay/>. It will take a number of days after this order is final, effective and filed with the Clerk of the Department before ability to make online payment is available.

20. Except as otherwise provided, all submittals and payments required by this Order shall be sent to DEP_CD@dep.state.fl.us and copied to David Smicherko, Environmental Manager, Department of Environmental Protection, Central District Office, 3319 Maguire Blvd., Suite 232, Orlando, FL 32803.

21. In lieu of making cash payment of \$7,750.00 in civil penalties as set forth in Paragraph #, Respondent may elect to off-set the amount of \$7,500.00 by implementing a Pollution Prevention (P2) Project, which must be approved by the Department. P2 is a process improvement that reduces the amount of pollution that enters the environment; by conserving resource (including water, raw materials, chemicals, and energy) use, or by minimizing waste generation (including domestic and industrial wastewater, solid and hazardous waste, and air emissions). A P2 Project must reduce pollution or waste within the process beyond what is required by federal, state, or local law, in order to be eligible for civil penalty offset under this Order. If Respondent chooses to implement a P2 Project, Respondent shall notify the Department of its election by certified mail within 15 days of the effective date of this Order.

Within 30 days of the effective date of this Order, Respondent must pay a total of \$250.00 for costs and expenses incurred by the Department, during the investigation of this matter, and the preparation and tracking of this Order.

22. If Respondent elects to implement a P2 Project as provided in Paragraph 18, Respondent shall submit a completed P2 Project Plan (Plan) within 30 days of the effective date of this Order. The Plan must be completed using Exhibit A, "P2 Project Plan" template.

23. In the event the Department requires additional information to process the Plan described in Paragraph 19, Respondent shall provide a modified Plan containing the information requested by the Department within 15 days of the date of the request.

24. If any balance remains after the entire P2 credit is applied to the allowable portion of the civil penalty, Respondent shall pay the difference within 30 days of written notification by the Department to Respondent that the balance is due.

25. Respondent shall allow all authorized representatives of the Department access to the Facility and the Property at reasonable times for the purpose of determining compliance with the terms of this Order and the rules and statutes administered by the Department.

26. If any event, including administrative or judicial challenges by third parties unrelated to Respondent, occurs which causes delay or the reasonable likelihood of delay in complying with the requirements of this Order, Respondent shall have the burden of proving the delay was or will be caused by circumstances beyond the reasonable control of Respondent and could not have been or cannot be overcome by Respondent's due diligence. Neither economic circumstances nor the failure of a contractor, subcontractor, materialman, or other agent (collectively referred to as "contractor") to whom responsibility for performance is delegated to meet contractually imposed deadlines shall be considered circumstances beyond the control of Respondent (unless the cause of the contractor's late performance was also beyond the contractor's control). Upon occurrence of an event causing delay, or upon becoming aware of a potential for delay, Respondent shall notify the Department by the next working day and shall, within seven calendar days notify the Department in writing of (a) the anticipated length and cause of the delay, (b) the measures taken or to be taken to prevent or

minimize the delay, and (c) the timetable by which Respondent intends to implement these measures. If the parties can agree that the delay or anticipated delay has been or will be caused by circumstances beyond the reasonable control of Respondent, the time for performance hereunder shall be extended. The agreement to extend compliance must identify the provision or provisions extended, the new compliance date or dates, and the additional measures Respondent must take to avoid or minimize the delay, if any. Failure of Respondent to comply with the notice requirements of this paragraph in a timely manner constitutes a waiver of Respondent's right to request an extension of time for compliance for those circumstances.

27. The Department, for and in consideration of the complete and timely performance by Respondent of all the obligations agreed to in this Order, hereby conditionally waives its right to seek judicial imposition of damages or civil penalties for the violations described above up to the date of the filing of this Order. This waiver is conditioned upon Respondent's complete compliance with all of the terms of this Order.

28. This Order is a settlement of the Department's civil and administrative authority arising under Florida law to resolve the matters addressed herein. This Order is not a settlement of any criminal liabilities which may arise under Florida law, nor is it a settlement of any violation which may be prosecuted criminally or civilly under federal law. Entry of this Order does not relieve Respondent of the need to comply with applicable federal, state, or local laws, rules, or ordinances.

29. The Department hereby expressly reserves the right to initiate appropriate legal action to address any violations of statutes or rules administered by the Department that are not specifically resolved by this Order.

30. Respondent is fully aware that a violation of the terms of this Order may subject Respondent to judicial imposition of damages, civil penalties up to \$15,000.00 per day per violation, and criminal penalties.

31. Respondent acknowledges and waives its right to an administrative hearing pursuant to sections 120.569 and 120.57, F.S., on the terms of this Order. Respondent also

acknowledges and waives its right to appeal the terms of this Order pursuant to section 120.68, F.S.

32. Electronic signatures or other versions of the parties' signatures, such as .pdf or facsimile, shall be valid and have the same force and effect as originals. No modifications of the terms of this Order will be effective until reduced to writing, executed by both Respondent and the Department, and filed with the clerk of the Department.

33. The terms and conditions set forth in this Order may be enforced in a court of competent jurisdiction pursuant to sections 120.69 and 403.121, F.S. Failure to comply with the terms of this Order constitutes a violation of section 403.161(1)(b), F.S.

34. This Consent Order is a final order of the Department pursuant to section 120.52(7), F.S., and it is final and effective on the date filed with the Clerk of the Department unless a Petition for Administrative Hearing is filed in accordance with Chapter 120, F.S. Upon the timely filing of a petition, this Consent Order will not be effective until further order of the Department.

35. Respondent shall publish the following notice in a newspaper of daily circulation in Volusia County, Florida. The notice shall be published one time only within 30 days of the effective date of the Order. Respondent shall provide a certified copy of the published notice to the Department within 10 days of publication.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF CONSENT ORDER

The Department of Environmental Protection ("Department") gives notice of agency action of entering into a Consent Order with CITY OF PORT ORANGE pursuant to section 120.57(4), Florida Statutes. The Consent Order addresses the permit limit exceedances for TSS and flow at 817 Oak St., Port Orange, FL. The Consent Order is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department of Environmental Protection, Central District Office, 3319 Maguire Blvd., Suite 232, Orlando, FL 32803.

Persons who are not parties to this Consent Order, but whose substantial interests are affected by it, have a right to petition for an administrative hearing under sections 120.569 and 120.57, Florida Statutes. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition concerning this Consent Order means that the Department's final action may be different from the position it has taken in the Consent Order.

The petition for administrative hearing must contain all of the following information:

- a) The name and address of each agency affected and each agency's file or identification number, if known;
- b) The name, address, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- c) A statement of when and how the petitioner received notice of the agency decision;
- d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;
- f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received) at the Department's Office of General Counsel, 3900 Commonwealth Boulevard, MS# 35, Tallahassee, Florida 32399-3000 or received via electronic correspondence at Agency_Clerk@floridadep.gov, within 21 days of receipt of this notice. A copy of the petition must also be mailed at the time of filing to the District Office at Central District Office, 3319 Maguire Blvd., Suite 232, Orlando, FL 32803. Failure to file a petition within the 21-day period constitutes a person's waiver of the right to request an administrative hearing and to participate as a party to this proceeding under sections 120.569

and 120.57, Florida Statutes. Before the deadline for filing a petition, a person whose substantial interests are affected by this Consent Order may choose to pursue mediation as an alternative remedy under section 120.573, Florida Statutes. Choosing mediation will not adversely affect such person's right to request an administrative hearing if mediation does not result in a settlement. Additional information about mediation is provided in section 120.573, Florida Statutes and Rule 62-110.106(12), Florida Administrative Code.

36. Rules referenced in this Order are available at
<http://www.dep.state.fl.us/legal/Rules/rulelist.htm>

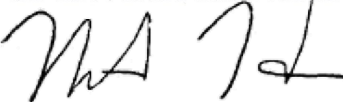
FOR THE RESPONDENT:


Wayne Clark
Port Orange City Manager

9/24/21
Date

DONE AND ORDERED this 29 day of September, 2021, in
Orange County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


on behalf of
Aaron Watkins
District Director
Central District

Filed, on this date, pursuant to section 120.52, F.S., with the designated Department Clerk,
receipt of which is hereby acknowledged.

Barbara Browning
Clerk

September 29, 2021
Date

DW/CO June 16, 2021

Final Clerked Copies furnished to:
Lea Crandall, Agency Clerk
Mail Station 35

[This template is to be used as a Long Form Consent Order Exhibit when regulatory corrective actions, or P2 Projects require time to be resolved or developed. This template must be completed to describe P2 Projects once identified. The document must be approved prior to P2 Project implementation. The Plan must contain the following information.]

Exhibit

P2 Project Plan (Plan)

(Note: Provide the information specified and delete existing text within parentheses)

(Facility Name)

(Address)

(Telephone)

(Preparer Name/Title)

A. **Project Description:** (Summarize P2 Projects selected. Describe the processes or operations to be modified, and the specific changes to be made. Include details such as the specific equipment to be installed, materials to be substituted, and the actual changes to be made to processes or operations. Include manufacturer or vendor information, and specifications.)

B. **Environmental and Economic Benefits:** (Explain why and how each Project proposed constitutes P2.

Specify how each material, chemical, water and energy is saved, and from which processes or operations. Specify how each solid and hazardous waste, industrial wastewater and air emissions are generated, the waste type, and from which processes or operations. **Describe generally in paragraph format.**

Estimate the *annual* savings in *resources* - raw materials, chemicals, water, and energy at the process or operation front end. Estimate the *annual* reductions in *wastes* - solid and hazardous waste, wastewater, and air emission reductions at the process or operation back end.

Figures quoted should represent weights or volumes annually, and should be equalized for production rate changes. Associated cost savings should be included. **Describe specifically using the tables provided.**

Complete the first table for each per Project individually. Add or average corresponding figures from each Project table to complete the Plan table, *for multiple Projects.*)

<i>(Project Name)</i>							
Annual Resource Consumption Comparison							
Item	Quantity Used (gal/lb/kwh-specify)			Purchasing Cost (\$)			Percent (%) Reduction
	Before	After	Reduction	Before	After	Reduction	
Water							
Chemicals							

Materials							
Energy							
Total Annual Cost Savings =							
Annual Waste Generation Comparison							
Item	Quantity Generated (gal/lb/tons-specify)			Disposal Cost (\$)			Percent (%) Reduction
	Before	After	Reduction	Before	After	Reduction	
Hazardous Waste							
Industrial Wastewater							
Solid Waste							
Air Emissions							
Total Annual Cost Savings =							
Total Annual Avoided Cost Savings =							

<i>Summary of All P2 Projects</i>							
Annual Resource Consumption Comparison							
Item	Quantity Used (gal/lb/kwh-specify)			Purchasing Cost (\$)			Percent (%) Reduction
	Before	After	Reduction	Before	After	Reduction	
Water							
Chemicals							
Materials							
Energy							
Total Annual Cost Savings =							
Annual Waste Generation Comparison							
Item	Quantity Generated (gal/lb/tons-specify)			Disposal Cost (\$)			Percent (%) Reduction
	Before	After	Reduction	Before	After	Reduction	
Hazardous Waste							
Industrial Wastewater							
Solid Waste							
Air Emissions							
Total Annual Cost Savings =							
Total Annual Avoided Cost Savings =							

C. **Project Cost:** (Include per Project the itemized, subtotal and Project total costs. A projected payback period in months or years needs to be included.

Provide a grand total cost for all Projects and an averaged projected payback period, *for multiple Projects. Use list or table format for all.*)

D. **Implementation Schedule:** (Provide a brief discussion of the steps necessary to implement the Projects and expected time frames for completion. A table or list format is preferred. The schedule shall include a list of milestones with dates, or timeframes based on Plan approval date, including Progress and Final Report submittals. Provide a description of any anticipated problems and options. *The implementation should take no longer than six months to complete.*)

E. **Project Reporting:**

1. Within 90 days of approval of the Project Plan, the Respondent shall submit a P2 Project Progress Report to the Department that describes the Respondent's progress in implementing the P2 Project and meeting the requirements in the Plan, and includes a list of equipment ordered, purchased, and/or installed.

2. Within 180 days of approval of the Plan, the Respondent shall submit to the Department a P2 Project Final Report that includes the following.

a. A confirmation that the information presented in Sections A-C of the Summary is unchanged, or an updated version with the sections changed appropriately. A statement that the Project(s) was/were implemented successfully. An explanation of any problems encountered and corrections applied.

b. Attached expense reports, receipts, purchasing instruments and other documents itemizing costs expended on preparing and implementing the Project.

3. The Department shall review the Final Report and determine:

a. Whether the project was properly implemented; and

b. Which expenses apply toward pollution prevention credits.

4. A \$1.00 pollution prevention credit for each \$1.00 spent on applicable costs will be applied against the portion of the civil penalty that can be offset.

a. The following costs are allowable to offset the allowable amount of the civil penalty:

i. Preparation of the P2 Project;

ii. Design of the P2 Project;

iii. Installation of equipment for the P2 Project;

iv. Construction of the P2 Project;

v. Testing of the P2 Project;

vi. Training of staff concerning the implementation of the P2 Project; and

vii. Capital equipment needed for the P2 Project.

b. The following costs shall not apply toward P2 credit:

i. Costs incurred in conducting a waste audit;

ii. Maintenance and operation costs involved in implementing the P2 Project;

iii. Monitoring and reporting costs;

iv. Salaries of employees who perform their job duties;

v. Costs expended to bring the facility into compliance with current law, rules and regulations;

vi. Costs associated with a P2 Project that is not implemented;

vii. Costs associated with a P2 Project that has not been approved by the Department; and

viii. Legal costs.

c. If any balance remains after the entire P2 credit is applied to the allowable portion of the civil penalty, Respondent shall pay the difference within 30 days of written notification by the Department to the Respondent that the balance is due.

5. The Department may terminate the P2 Project at any time during the development or implementation of it, if the Respondent fails to comply with the requirements in this document, act in good faith in preparing and implementing the project, or develop and implement the P2 Project in a timely manner. The Respondent may terminate the P2 Project at any time during its development or implementation.

[This template is to be used as a Long Form Consent Order Exhibit when regulatory corrective actions, or P2 Projects require time to be resolved or developed. This template must be completed to describe P2 Projects once identified. The document must be approved prior to P2 Project implementation. The Plan must contain the following information.]

Exhibit A

P2 Project Plan (Plan)

(Note: Provide the information specified and delete existing text within parentheses)

(Facility Name)

(Address)

(Telephone)

(Preparer Name/Title)

A. **Project Description:** (Summarize P2 Projects selected. Describe the processes or operations to be modified, and the specific changes to be made. Include details such as the specific equipment to be installed, materials to be substituted, and the actual changes to be made to processes or operations. Include manufacturer or vendor information, and specifications.)

B. **Environmental and Economic Benefits:** (Explain why and how each Project proposed constitutes P2.

Specify how each material, chemical, water and energy is saved, and from which processes or operations. Specify how each solid and hazardous waste, industrial wastewater and air emissions are generated, the waste type, and from which processes or operations. **Describe generally in paragraph format.**

Estimate the *annual* savings in *resources* - raw materials, chemicals, water, and energy at the process or operation front end. Estimate the *annual* reductions in *wastes* - solid and hazardous waste, wastewater, and air emission reductions at the process or operation back end.

Figures quoted should represent weights or volumes annually, and should be equalized for production rate changes. Associated cost savings should be included. **Describe specifically using the tables provided.**

Complete the first table for each per Project individually. Add or average corresponding figures from each Project table to complete the Plan table, *for multiple Projects.*)

<i>(Project Name)</i>							
Annual Resource Consumption Comparison							
Item	Quantity Used (gal/lb/kwh-specify)			Purchasing Cost (\$)			Percent (%) Reduction
	Before	After	Reduction	Before	After	Reduction	
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Chemicals							

Materials							
Energy							
Total Annual Cost Savings =							
Annual Waste Generation Comparison							
Item	Quantity Generated (gal/lb/tons-specify)			Disposal Cost (\$)			Percent (%) Reduction
	Before	After	Reduction	Before	After	Reduction	
Hazardous Waste							
Industrial Wastewater							
Solid Waste							
Air Emissions							
Total Annual Cost Savings =							
Total Annual Avoided Cost Savings =							

<i>Summary of All P2 Projects</i>							
Annual Resource Consumption Comparison							
Item	Quantity Used (gal/lb/kwh-specify)			Purchasing Cost (\$)			Percent (%) Reduction
	Before	After	Reduction	Before	After	Reduction	
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Chemicals							
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Hazardous Waste							
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Air Emissions							
Total Annual Cost Savings =							
Total Annual Avoided Cost Savings =							

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Provide a grand total cost for all Projects and an averaged projected payback period, *for multiple Projects. Use list or table format for all.*)

D. **Implementation Schedule:** (Provide a brief discussion of the steps necessary to implement the Projects and expected time frames for completion. A table or list format is preferred. The schedule shall include a list of milestones with dates, or timeframes based on Plan approval date, including Progress and Final Report submittals. Provide a description of any anticipated problems and options. *The implementation should take no longer than six months to complete.*)

E. **Project Reporting:**

1. Within 90 days of approval of the Project Plan, the Respondent shall submit a P2 Project Progress Report to the Department that describes the Respondent's progress in implementing the P2 Project and meeting the requirements in the Plan, and includes a list of equipment ordered, purchased, and/or installed.

2. Within 180 days of approval of the Plan, the Respondent shall submit to the Department a P2 Project Final Report that includes the following.

a. A confirmation that the information presented in Sections A-C of the Summary is unchanged, or an updated version with the sections changed appropriately. A statement that the Project(s) was/were implemented successfully. An explanation of any problems encountered and corrections applied.

b. Attached expense reports, receipts, purchasing instruments and other documents itemizing costs expended on preparing and implementing the Project.

3. The Department shall review the Final Report and determine:

a. Whether the project was properly implemented; and

b. Which expenses apply toward pollution prevention credits.

4. A \$1.00 pollution prevention credit for each \$1.00 spent on applicable costs will be applied against the portion of the civil penalty that can be offset.

a. The following costs are allowable to offset the allowable amount of the civil penalty:

i. Preparation of the P2 Project;

ii. Design of the P2 Project;

iii. Installation of equipment for the P2 Project;

iv. Construction of the P2 Project;

v. Testing of the P2 Project;

vi. Training of staff concerning the implementation of the P2 Project; and

vii. Capital equipment needed for the P2 Project.

b. The following costs shall not apply toward P2 credit:

i. Costs incurred in conducting a waste audit;

ii. Maintenance and operation costs involved in implementing the P2 Project;

iii. Monitoring and reporting costs;

iv. Salaries of employees who perform their job duties;

v. Costs expended to bring the facility into compliance with current law, rules and regulations;

vi. Costs associated with a P2 Project that is not implemented;

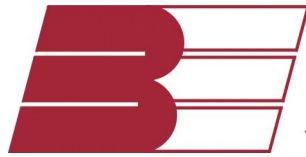
vii. Costs associated with a P2 Project that has not been approved by the Department; and

viii. Legal costs.

c. If any balance remains after the entire P2 credit is applied to the allowable portion of the civil penalty, Respondent shall pay the difference within 30 days of written notification by the Department to the Respondent that the balance is due.

5. The Department may terminate the P2 Project at any time during the development or implementation of it, if the Respondent fails to comply with the requirements in this document, act in good faith in preparing and implementing the project, or develop and implement the P2 Project in a timely manner. The Respondent may terminate the P2 Project at any time during its development or implementation.

Appendix B – Geotechnical Results



BECHTOL ENGINEERING AND TESTING, inc.

December 21, 2021
BET Project No. G21365

TO: Ms. Tonya Sonier, P.E.
Mead & Hunt
4401 Eastport Parkway
Port Orange, Florida 32127

RE: Soil Borings & Permeability Testing
City of Port Orange
Shunz Road Sprayfield
Port Orange, Volusia County, Florida

Dear Ms. Sonier:

As authorized, Bechtol Engineering and Testing, Inc. (BET) has conducted auger borings and field permeability/hydraulic conductivity testing at the subject site. The purpose of BET's borings and testing was to gain general insight as to the soil, groundwater and permeability characteristics in the areas of proposed effluent sprayfield discharge areas, and based on these characteristics to provide recommended design parameters for effluent application rates. Approximate locations of the borings and permeability tests performed are shown on the Boring Location Plan presented on the attached Figure 1. Encountered subsurface soils, encountered and estimated seasonal high groundwater levels, and applicable permeability data are summarized on the Soil Profiles, shown on Figure 2.

Based on the encountered conditions, BET would recommend the following design parameters be utilized in effluent sprayfield discharge system design and analyses:

DESIGN PARAMETER	RECOMMENDED VALUE
ELEVATION OF EFFECTIVE AQUIFER BASE (FEET, NAVD88)	23.8
ELEVATION OF SEASONAL HIGH GROUNDWATER (FEET, NAVD88)	27.0
UNSATURATED VERTICAL HYDRAULIC CONDUCTIVITY (FPD)	13.2
SATURATED HORIZONTAL HYDRAULIC CONDUCTIVITY (FPD)	39.6
NOTES: 1. Elevations are based on interpolation of ground surface elevations at boring locations from topographic data shown on <i>Volusia County LiDAR Mapping</i> . Actual elevations may vary. 2. Recommended hydraulic conductivity rates are based on averages of the values measured in the field at two test locations. 3. Recommended aquifer base and seasonal high groundwater elevations are based on averages of the values measured and/or estimated in the field at two test locations.	

The boring profiles depict subsurface conditions only at the specific locations drilled and to the termination depths noted. Permeability and hydraulic conductivity rates noted are based on actual field measured parameters and do not incorporate any factor of safety for design.

The services requested and performed are for the sole purpose of aiding the design engineer in evaluating and designing effluent sprayfield discharge systems. Variations in subsurface conditions not disclosed by the borings and testing performed may occur, and could influence the performance and construction of such systems.

BET appreciates the opportunity to be of service, and trusts this information is complete and sufficient for your needs. If you should have any questions or if BET may be of further service, please do not hesitate to call.

Respectfully,

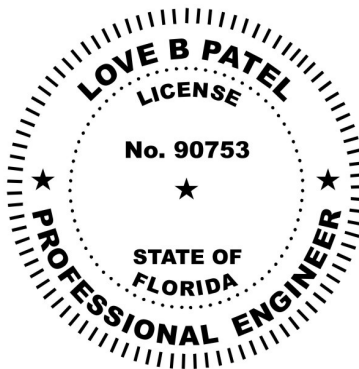
Bechtol Engineering and Testing, Inc.

Love B. Patel, P.E.
Senior Geotechnical Engineer

Love B. Patel, P.E., State of Florida

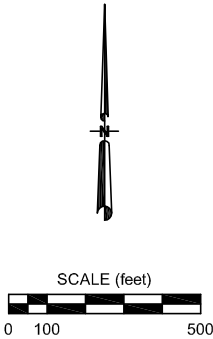
Professional Engineer, License No. 90753

This item has been digitally signed and sealed by Love B. Patel, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.



BORING LOCATION PLAN

SCALE: 1" = 500'



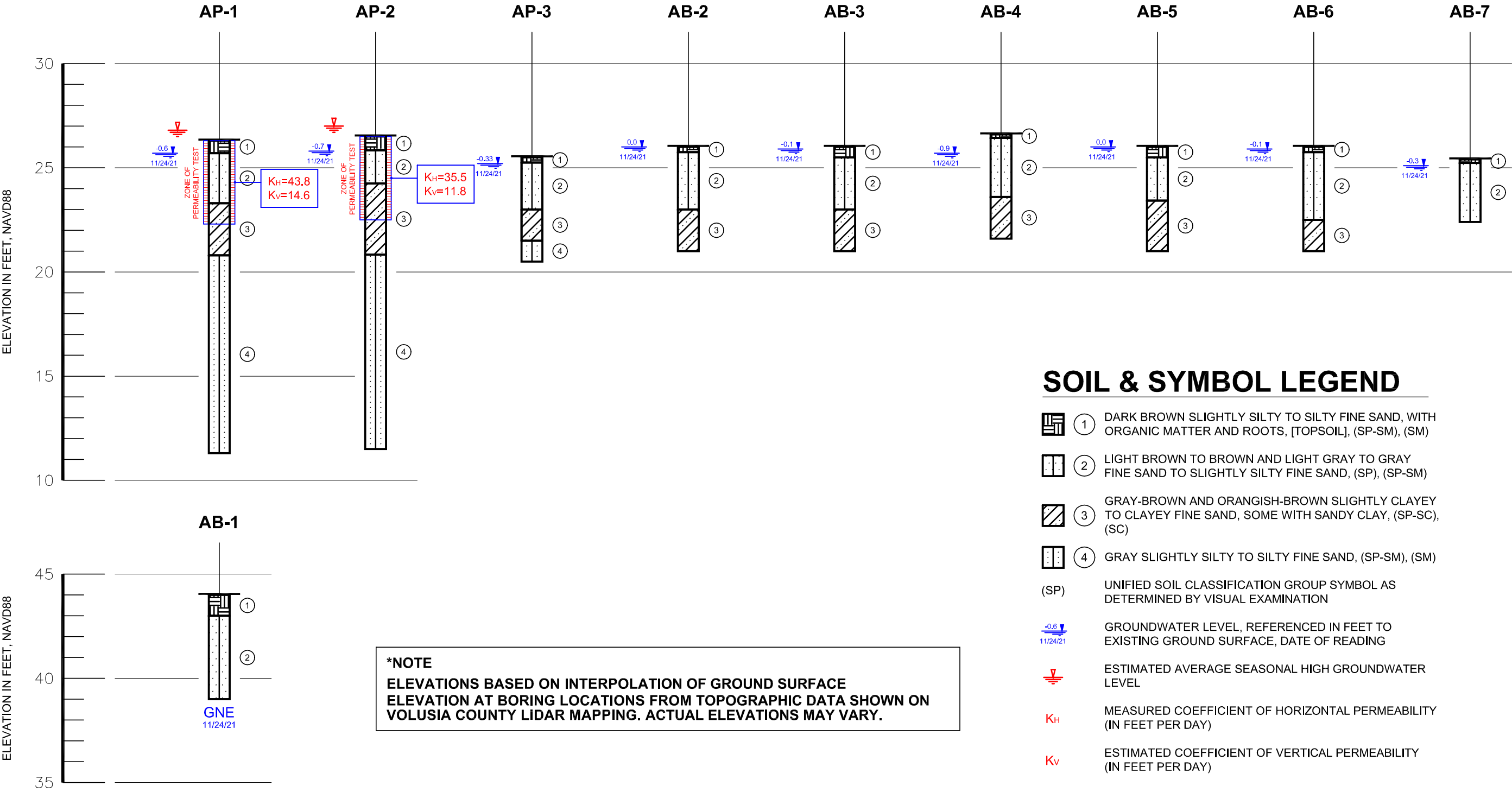
SYMBOL LEGEND

-  APPROXIMATE LOCATION OF AUGER BORING WITH FIELD PERMEABILITY TEST
-  APPROXIMATE LOCATION OF AUGER BORING

 BECHTOL ENGINEERING AND TESTING, inc. CONSULTING GEOTECHNICAL, ENVIRONMENTAL, AND MATERIALS TESTING ENGINEERS Certificate of Authorization No. 00005492	SOIL BORINGS & PERMEABILITY TESTING			FIELD:	CT KT	DATE:	12/13/2021
	SHUNZ ROAD SPRAYFIELD			DRAWN:	LP	SCALE:	NOTED
	CITY OF PORT ORANGE			CHECKED:	TB	PROJ. NO.:	G21365
	PORT ORANGE, VOLUSIA COUNTY, FLORIDA			APPROVED:	TB		FIGURE 1

SOIL PROFILES

VERTICAL SCALE: 1" = 5'



SOIL & SYMBOL LEGEND

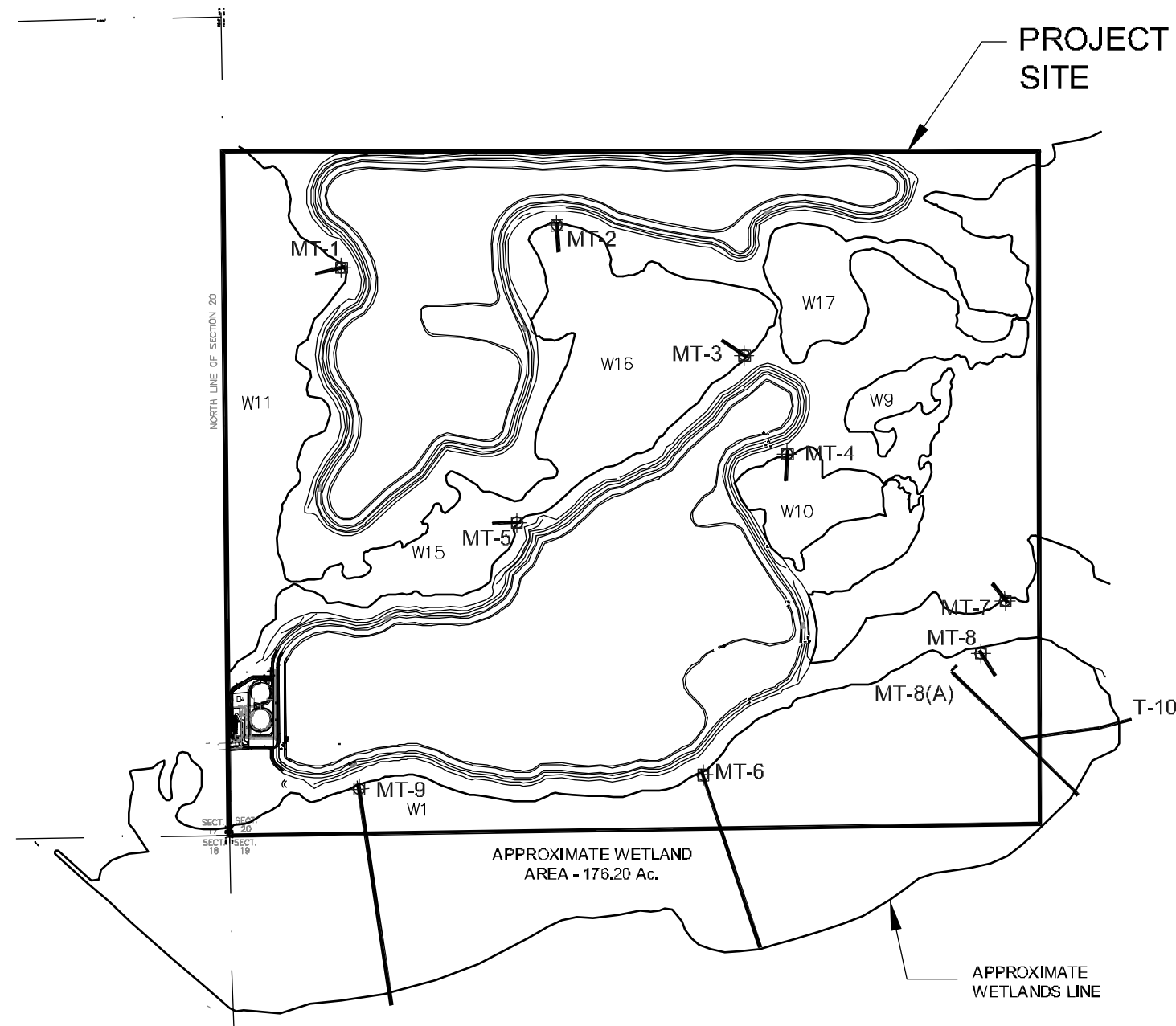
- ① DARK BROWN SLIGHTLY SILTY TO SILTY FINE SAND, WITH ORGANIC MATTER AND ROOTS, (TOPSOIL), (SP-SM), (SM)
- ② LIGHT BROWN TO BROWN AND LIGHT GRAY TO GRAY FINE SAND TO SLIGHTLY SILTY FINE SAND, (SP), (SP-SM)
- ③ GRAY-BROWN AND ORANGISH-BROWN SLIGHTLY CLAYEY TO CLAYEY FINE SAND, SOME WITH SANDY CLAY, (SP-SC), (SC)
- ④ GRAY SLIGHTLY SILTY TO SILTY FINE SAND, (SP-SM), (SM)
- (SP) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL AS DETERMINED BY VISUAL EXAMINATION
- GROUNDWATER LEVEL, REFERENCED IN FEET TO EXISTING GROUND SURFACE, DATE OF READING
- ESTIMATED AVERAGE SEASONAL HIGH GROUNDWATER LEVEL
- K_H MEASURED COEFFICIENT OF HORIZONTAL PERMEABILITY (IN FEET PER DAY)
- K_V ESTIMATED COEFFICIENT OF VERTICAL PERMEABILITY (IN FEET PER DAY)

FIELD: CT KT	DATE: 12/13/2021
DRAWN: LP	SCALE: NOTED
CHECKED: TB	PROJ. NO.: G21365
APPROVED: TB	FIGURE 2

SOIL BORINGS & PERMEABILITY TESTING
SHUNZ ROAD SPRAYFIELD
CITY OF PORT ORANGE
PORT ORANGE, VOLUSIA COUNTY, FLORIDA

BECHTOL ENGINEERING AND TESTING, inc.
CONSULTING GEOTECHNICAL, ENVIRONMENTAL, AND MATERIALS TESTING ENGINEERS
Certificate of Authorization No. 00005492

Appendix C – Reclaimed Water Reservoir Monitoring Well Data

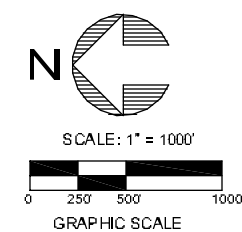


NOTES:

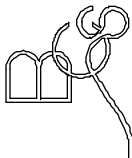
- 1 - PIEZOMETER, TRANSECT AND SHW ELEVATIONS PROVIDED BY SLIGER AND ASSOCIATES, INC. (DRAWING FILE #09-0932 & #06-0796)
- 2 - INFORMATION FOR THE SHW ELEVATIONS AS PER PERMIT #SAJ-2002-3473-MLH (SPECIAL CONDITION 3E)
- 3 - AERIAL PHOTO INSERTED FROM 45789, 45790, 46086, 46090, 46389, & 46390.
- 4 - AERIAL PHOTO ADAPTED FROM DIGITAL ORTHO QUADRANGLE OBTAINED FROM THE VOLUSIA COUNTY PROPERTY APPRAISER'S OFFICE (DATED 2009). SCALE IS APPROXIMATE.
- 5 - THE INITIAL SEASONAL HIGH WATER ELEVATIONS (SET ON OCTOBER 20, 2009) WERE RE-REVIEWED BY BCS, INC. STAFF IN THE FIELD ON NOVEMBER 2, 2010 TO DETERMINE CHANGES TO THE ELEVATIONS (IF ANY) AND ARE SHOWN BELOW. SOME STATION CONDITIONS WERE NOT USABLE AND THE ELEVATION WAS NOT SHOWN. THESE STATIONS WERE NOT USED TO CALCULATE THE MEAN SEASONAL HIGH WATER ELEVATION.

PO-1

PO-4



NOTE: sampling at MT-1 was discontinued on Jan 1, 2016

OVERALL HYDROLOGIC MONITORING PIEZOMETER & TRANSECT EXHIBIT		drawing no. 12056-02	
revised	09/13/11 - JPC		
 Joe H. Young III Estuarine Field Biologist 208 Rush Street New Smyrna Beach, FL 32168 386-423-3402 bboon@bellsouth.net		drawn	JPC
		date	01/31/11
		scale (size B)	1"=600'
		job no.	10-12056
BIOLOGICAL CONSULTING SERVICES, INC.			
REVISED E.R.P. SUPPORT DOCUMENT			
PORT ORANGE RECLAIMED WATER RESERVOIR			

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
1/1/2017	0.00	35.8	37.3		33.65	35.29	36.29	34.99	35.39					28.71	35.66	36.73	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/2/2017	0.00	35.8	37.3		33.67	35.28	36.28	35	35.37					28.7	35.64	36.7	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/3/2017	0.15	35.8	37.3		33.69	35.28	36.28	35.03	35.37					28.7	35.61	36.68	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/4/2017	0.00	35.8	37.3		33.92	35.33	36.3	35.24	35.36					29.29	35.88	36.65	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/5/2017	0.00	35.8	37.3		33.81	35.27	36.28	35.12	35.35					29	35.81	36.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/6/2017	1.10	35.8	37.3		33.71	35.25	36.25	35.08	35.34					28.83	35.69	36.58	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/7/2017	0.00	35.9	37.3		34.44	35.64	36.47	35.63	35.4					30.22	36.28	36.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/8/2017	0.10	35.9	37.3		34.36	35.48	36.58	35.38	35.58					29.75	36.3	36.81	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/9/2017	0.00	35.9	37.3		34.28	35.41	36.54	35.31	35.59					29.54	36.21	36.87	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/10/2017	0.00	35.9	37.3		34.21	35.36	36.48	35.27	35.57					29.4	36.14	36.89	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/11/2017	0.00	35.9	37.3		34.09	35.33	36.44	35.26	35.54					29.3	36.07	36.82	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/12/2017	0.00	35.9	37.3		33.97	35.27	36.38	35.21	35.51					29.2	35.98	36.77	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/13/2017	0.00	35.9	37.3		33.97	35.23	36.32	35.19	35.46					29.1	35.91	36.72	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/14/2017	0.00	35.9	37.3		33.99	35.23	36.29	35.21	35.43					29.04	35.85	36.66	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/15/2017	0.00	35.9	37.3		33.9	35.21	36.26	35.19	35.39					28.98	35.78	36.6	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/16/2017	0.00	35.9	37.3		33.83	35.18	36.23	35.15	35.35					28.9	35.71	36.54	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/17/2017	0.00	35.9	37.3		33.84	35.17	36.22	35.14						28.84	35.64	36.51	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/18/2017	0.00	35.9	37.3		33.75	35.15	36.2	35.14						28.79	35.6	36.48	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/19/2017	0.00	35.9	35.9		33.71	35.15	36.19	35.13						28.74	35.57	36.46	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/20/2017	0.00	35.9	35.9		33.61	35.12	36.17	35.09						28.71	35.53	36.42	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/21/2017	0.00	35.9	35.9		33.63	35.11	36.16	35.07						28.67	35.49	36.39	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/22/2017	0.20	35.9	37.9		33.61	35.09	36.15	35.08						28.65	35.47	36.38	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/23/2017	0.00	35.9	37.9		34.22	35.19	36.16	35.31						29.42	35.74	36.35	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/24/2017	0.00	35.9	37.9		34.04	35.11	36.14	35.16						29.07	35.65	36.32	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/25/2017	0.00	35.9	37.9		33.93	35.09	36.12	35.12						28.87	35.54	36.29	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/26/2017	0.00	36.4	36.4		33.83	35.08	36.12	35.11						28.74	35.46	36.25	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/27/2017	0.00	36.4	36.4		33.74	35.04	36.11	35.03						28.64	35.42	36.22	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/28/2017	0.00	36.4	36.4		33.72	35.03	36.09	35.01						28.59	35.38	36.21	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/29/2017	0.30	36.4	36.4		33.79	35.03	36.08	35.2						28.81	35.42	36.21	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/30/2017	0.00	36.4	36.4		33.83	35.01	36.08	35.08						28.68	35.37	36.16	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/31/2017	0.00	36.4	36.4		33.77	34.99	36.07	35.04						28.56	35.33	36.12	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/1/2017	0.00	36.4	36.4		33.74	34.97	36.06	35.02						28.53	35.3	36.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/2/2017	0.00	36.4	36.4		33.71	34.94	36.04	34.99						28.49	35.26	36.08	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/3/2017	0.00	36.4	36.4		33.71	34.93	36.03	34.99						28.46	35.24	36.05	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/4/2017	0.00	36.4	36.4		33.71	34.91	36.02	34.96						28.43	35.22	36.02	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/5/2017	0.00	36.4	36.4		33.75	34.9	36.01	35						28.42	35.2	36.01	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/6/2017	0.00	36.4	36.4		33.76	34.9	36.01	34.97						28.39	35.16	35.96	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/7/2017	0.45	36.4	36.4		33.72	34.87	35.99	34.93						28.36	35.13	35.95	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/8/2017	0.00	36.4	36.4		34	34.91	35.99	35.21						28.87	35.21	35.92	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/9/2017	0.00	36.4	36.4		33.9	34.85	35.98	35.04						28.64	35.18	35.87	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/10/2017	0.00	36.4	36.4		33.81	34.83	35.96	34.92						28.42	35.12	35.84	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/11/2017	0.00	36.4	36.4		33.77	34.82	35.96	34.93						28.33	35.09	35.82	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/12/2017	0.00	36.4	36.4		33.74	34.8		34.89						28.3	35.06	35.8	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/13/2017	0.00	36.4	36.4		33.69	34.78		34.9						28.27	35.04	35.78	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/14/2017	0.00	36.4	36.4		33.7	34.77		34.88						28.25	35.01	35.75	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/15/2017	0.00	36.4	36.4		33.68	34.75		34.88						28.23	34.99	35.73	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/16/2017	0.00	36.4	36.4		33.66	34.72		34.78						28.17	34.95	35.68	31.82	37.05	37.05	38.8									

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
3/6/2017	0.00	36.3	36.6		34.04	34.62	35.97	34.98						28.55	34.99	35.52	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/7/2017	0.00	36.3	36.6		34.03	34.61		34.97						28.5	34.93	35.5	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/8/2017	0.00	36.3	36.6		34	34.6		34.96						28.46	34.87	35.46	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/9/2017	0.00	36.3	36.6		33.95	34.58		34.93						28.39	34.82	35.44	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/10/2017	0.00	36.3	36.5		33.91	34.57		34.91						28.34	34.79	35.41	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/11/2017	0.00	36.3	36.5		33.82	34.54		34.84						28.26	34.76	35.38	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/12/2017	0.15	36.4	36.5		33.78	34.52		34.85						28.21	34.75	35.36	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/13/2017	0.45	36.4	36.5		33.81	34.52		34.94						28.24	34.73	35.35	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/14/2017	0.00	36.4	36.5		33.92	34.53		35.1						28.55	34.73	35.33	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/15/2017	0.00	36.2	36.4		33.84	34.51		34.94						28.37	34.7	35.3	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/16/2017	0.00	36.2	36.4		33.76	34.49		34.85						28.22	34.67	35.27	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/17/2017	0.00	36.2	36.5		33.72	34.47		34.82						28.14	34.64	35.24	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/18/2017	0.00	36.2	36.4		33.69	34.45		34.8						28.1	34.61	35.22	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/19/2017	0.00	36.2	36.4		33.63	34.43		34.75						28.05	34.58	35.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/20/2017	0.00	36.2	36.4		33.59	34.36		34.69						28	34.55	35.16	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/21/2017	0.00	36.2	36.4		33.56	34.26		34.66						27.96	34.51	35.13	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/22/2017	0.00	36.2	36.4		33.53	34.23		34.67						27.92	34.48	35.09	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/23/2017	0.25	36.2	36.4		33.49	34.25		35.12						27.92	34.52	35.04	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/24/2017	0.00	36.1	36.4		33.57	34.26		34.8						28.01	34.49	35	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/25/2017	0.00	36.2	36.4		33.54	34.26		34.72						27.9	34.46	34.95	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/26/2017	0.00	36.2	36.4		33.49	34.26		34.65						27.85	34.44	34.91	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/27/2017	0.00	36.2	36.4		33.44	34.27		34.59						27.81	34.42	34.88	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/28/2017	0.00	36.2	36.4		33.42	34.27		34.56						27.77	34.39	34.85	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/29/2017	0.00	36.2	36.4		33.38	34.3		34.51						27.73	34.36	34.82	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/30/2017	0.00	36.1	36.3		33.36	34.26		34.46						27.69	34.33	34.79	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/31/2017	0.00	36	36.3		33.32	34.25		34.44						27.66	34.3	34.76	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/1/2017	0.00	36	36.3		33.29	34.23		34.37						27.6	34.28	34.72	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/2/2017	0.00	36	36.3		33.27	34.27		34.35						27.56	34.25	34.7	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/3/2017	0.10	36	36.3		33.26	34.24		34.31						27.52	34.22	34.66	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/4/2017	0.00	36	36.2		33.25	34.24		35.2						27.48	34.29	34.65	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/5/2017	0.25	36	36.3		33.98	34.54		35.19						28.39	34.52	34.63	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/6/2017	0.00	36	36.3		34.02	34.4		35.06						28.44	34.59	34.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/7/2017	0.00	36	36.2		33.93	34.3		34.86						28.33	34.61	34.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/8/2017	0.00	36	36.2		33.85	34.29		34.74						28.2	34.57	34.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/9/2017	0.00	36	36.2		33.76	34.24		34.65						28.06	34.49	34.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/10/2017	0.00	36	36.4		33.63	34.23		34.56						27.92	34.4	34.61	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/11/2017	0.00	36	36.4		33.51	34.2		34.48						27.81	34.29	34.6	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/12/2017	0.00	35.8	36.2		33.41	34.25		34.4						27.7	34.2	34.59	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/13/2017	0.00	35.8	36.2		33.34	34.27		34.35						27.59	34.19	34.57	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/14/2017	0.00	35.7	36.2		33.3	34.28		34.28						27.49	34.16	34.55	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/15/2017	0.00	35.7	36.2		33.29	34.27		34.28						27.43	34.13	34.52	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/16/2017	0.00	35.7	36.2		33.26	34.25		34.25						27.38	34.1	34.5	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/17/2017	0.00	35.7	36		33.25	34.27		34.2						27.33	34.07	34.47	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/18/2017	0.00	35.7	36		33.23	34.25		34.15						27.28	34.05	34.44	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/19/2017	0.00	35.7	36		33.2	34.25		34.07						27.23	34.02	34.41	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/20/2017	0.00	35.6	36		33.17	34.27		34.06						27.19	33.99	34.39	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/21/2017	0.00	35.55	35.8		33.15	34.25		34.02						27.16	33.96	34.35	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/22/2017	0.00	35.5	35.8		33.14	34.27		34.04						27.11	33.93	34.32	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/23/2017	0.00	35.5																											

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
5/9/2017	0.00	35	35.4		32.84	34.25		33.48						26.58	33.42	33.78	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/10/2017	0.00	35	35.4			34.29		33.43						26.55	33.39	33.74	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/11/2017	0.00	35	35.4			34.26		33.39						26.52	33.36	33.7	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/12/2017	0.00	35	35.4			34.25		33.37						26.49	33.33	33.66	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/13/2017	0.00	35	35.4			34.28		33.42							33.3	33.63	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/14/2017	0.85	35	35.3			34.3		33.91							33.28	33.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/15/2017	0.00	35	35.3			34.25		33.73							33.25	33.6	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/16/2017	0.00	35	35.3			34.28		33.61							33.22	33.57	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/17/2017	0.00	35	35.3			34.26		33.47							33.2	33.55	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/18/2017	0.00	34.8	35.2			34.26		33.37							33.17	33.53	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/19/2017	0.00	34.8	35.2			34.27		33.35							33.14	33.5	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/20/2017	0.00	34.8	35.2			34.25		33.27							33.11	33.47	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/21/2017	0.00	34.8	35.2			34.25		33.23							33.08	33.44	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/22/2017	0.80	34.8	35.2			34.26		33.18							33.05	33.41	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/23/2017	1.10	34.8	35.2			34.27		34.18							33.03	33.39	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/24/2017	0.10	34.8	35.2			34.29		33.92							33.01	33.37	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/25/2017	0.00	34.8	35.2			34.27		33.79							32.99	33.36	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/26/2017	0.00	34.8	35.2			34.26		33.62							32.97	33.33	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/27/2017	0.00	34.8	35.2			34.28		33.51							32.94	33.31	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/28/2017	0.00	34.7	35.2			34.31		33.42							32.92	33.29	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/29/2017	0.00	34.7	35.2			34.27		33.29							32.89	33.27	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/30/2017	0.00	34.7	35.2			34.32		33.21							32.86	33.25	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/31/2017	0.25	34.6	35.2			34.28		33.16							32.84	33.23	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/1/2017	0.00	34.6	35.2			34.3		33.61							32.81	33.2	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/2/2017	0.00	34.6	35.1			34.27		33.55							32.79	33.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/3/2017	0.00	34.6	35.1			34.3		33.6							32.77	33.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/4/2017	0.25	34.6	35.2			34.28		33.49							32.75	33.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/5/2017	0.25	34.6	35.2			34.26		33.41							32.74	33.16	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/6/2017	1.50	34.6	35.2			34.34		33.5							32.72	33.15	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/7/2017	1.95	34.6	35.2			34.31		34.89							33.02	33.32	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/8/2017	0.00	34.8	35.6		34.16	34.3	36.16	35.42	35.52					26.99	33.29	33.64	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/9/2017	0.00	34.8	35.6		34.3	34.26	36.24	34.91	35.71					27.91	33.58	33.94	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/10/2017	0.00	34.8	35.7		34.31	34.29	36.17	34.71	35.71					27.93	33.82	34.15	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/11/2017	0.30	34.8	35.8		34.26	34.26	36.08	34.61	35.67					27.89	34	34.33	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/12/2017	0.35	34.8	35.8		34.26	34.33	36.02	34.52	35.63					27.82	34.15	34.51	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/13/2017	0.20	34.8	35.8		34.32	34.27	35.98	34.63	35.6					27.8	34.27	34.68	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/14/2017	0.85	34.8	35.8		34.32	34.26	35.95	34.62	35.59					27.78	34.43	34.86	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/15/2017	0.70	34.8	36		34.24	34.31		34.47	35.58					27.73	34.55	35.01	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/16/2017	0.00	34.8	36		34.32	34.29		34.64	35.62					27.79	34.65	35.13	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/17/2017	0.00	34.8	36.1		34.43	34.27		34.64	35.66					27.81	34.73	35.22	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/18/2017	0.00	34.8	36.2		34.25	34.42		34.47	35.65					27.71	34.74	35.29	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/19/2017	0.20	34.8	36.2		34.15	34.42		34.36	35.61					27.64	34.72	35.33	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/20/2017	0.00	34.8	36.2		34.12	34.42		34.33	35.57					27.59	34.72	35.37	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/21/2017	0.00	34.8	36.3		34.04	34.42		34.26	35.55					27.52	34.71	35.39	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/22/2017	0.00	34.8	36.3		33.95	34.42		34.18	35.51					27.46	34.66	35.4	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/23/2017	0.00	34.8	36.3		33.87	34.41		34.09	35.46					27.38	34.59	35.4	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/24/2017	0.00	34.8	36.4		33.74	34.41		34	35.42					27.3	34.5	35.38	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/25/2017	0.20	34.7	36.4		33.7	34.4		34.01	35.37					27.22	34.44	35.37	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/26/2017	0.25	34.7	36.4		33.62	34.4		34.1	35.32					27.16	34.43	35.37	31.82	37.05	37.05	38.8	35.9	36.7							

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
7/1/2017	0.20	35	36.5		34.67	34.46	36.47	34.6	36.19	34.06		33.81	30	27.35	35.48	36.38	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/2/2017	0.00	35	36.8		34.64	34.45	36.41	34.55	36.12	34.06		33.81	30	27.33	35.42	36.4	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/3/2017	1.30	35	36.8		34.51	34.39	36.33	34.43	36.04	34.06		33.81	30	27.26	35.36	36.38	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/4/2017	0.00	35	36.8		34.56	34.34	36.27	34.51	35.97	34.06		33.81	30	27.29	35.26	36.37	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/5/2017	0.00	35.2	36.8		34.38	34.41	36.2	34.36	35.89	34.06		33.81	30	27.24	35.16	36.32	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/6/2017	0.00	35.2	36.8		34.3	34.3	36.13	34.28	35.81	34.06		33.81	30	27.18	35.07	36.26	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/7/2017	0.00	35.2	36.8		34.23	34.3	36.07	34.21	35.73	34.06		33.81	30	27.11	34.99	36.21	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/8/2017	1.00	35.2	36.8		34.14	34.32	36.01	34.12	35.65	34.06		33.81	30	27.05	35.03	36.16	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/9/2017	1.75	35.2	36.8		34.66	34.33	36.34	34.9	36.31	34.06		33.81	30	27.28	35.83	36.42	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/10/2017	1.10	35.2	36.9		34.99	34.46	36.58	35.06	36.32	34.06		33.81	30	27.99	35.92	36.61	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/11/2017	0.25	35.38	36.74		35.05	34.56	36.67	35	36.26	34.06		33.81	30	28.24	35.82	36.73	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/12/2017	0.00	35.4	36.7		35.23	34.67	36.79	34.94	36.18	34.06		33.81	30	28.6	35.69	36.75	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/13/2017	0.00	35.5	36.7		35.07	34.67	36.7	34.85	36.1	34.06		33.81	30	28.47	35.58	36.74	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/14/2017	0.00	35.5	36.8		34.93	34.64	36.62	34.74	36.02	34.06		33.81	30	28.33	35.48	36.68	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/15/2017	0.00	35.6	36.8		34.82	34.59	36.53	34.64	35.94	34.06		33.81	30	28.2	35.39	36.66	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/16/2017	0.00	35.6	36.8		34.69	34.53	36.45	34.56	35.86	34.06		33.81	30	28.06	35.29	36.56	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/17/2017	0.95	35.4	36.5		34.58	34.46	36.37	34.47	35.77	34.06		33.81	30	27.93	35.2	36.45	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/18/2017	0.50	35.5	36.5		35.33	34.76	36.84	35.2	36.21	34.06		33.81	30	28.31	35.96	36.63	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/19/2017	0.00	35.7	36.6		35.48	34.92	37.02	35.35	36.52	34.06		33.81	30	28.77	36.22	37.08	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/20/2017	0.00	35.65	36.6		35.24	34.9	36.92	35.14	36.46	34.06		33.81	30	28.62	36.11	37.29	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/21/2017	0.40	35.65	36.6		35.11	34.9	36.84	35.01	36.37	34.06		33.81	30	28.44	35.97	37.31	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/22/2017	0.00	35.9	36.5		35.02	34.87	36.77	34.94	36.28	34.06		33.81	30	28.3	36.24	37.3	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/23/2017	1.45	35.9	36.8		35.74	35.2	37.23	35.39	36.74	34.06		33.81	30	29.05	36.79	38.07	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/24/2017	0.50	35.9	36.8		35.48	35.18	37.16	35.27	36.68	34.06		33.81	30	28.9	36.7	38.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/25/2017	0.00	35.9	36.8		35.6	35.24	37.22	35.3	36.75	34.06		33.81	30	28.87	36.56	38.09	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/26/2017	0.00	35.9	36.7		35.3	35.15	37.08	35.17	36.62	34.06		33.81	30	28.63	36.37	37.97	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/27/2017	0.20	35.9	36.6		35.21	35.1	36.98	35.11	36.52	34.06		33.81	30	28.48	36.24	37.86	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/28/2017	0.00	36	36.6		35.07	35.04	36.89	35.05	36.42	34.06		33.81	30	28.34	36.17	37.74	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/29/2017	0.50	36	36.6		35	34.99	36.81	35.07	36.33	34.06		33.81	30	28.21	36.07	37.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/30/2017	0.00	36	36.6		34.98	34.97	36.75	35.06	36.25	34.06		33.81	30	28.12	36.32	37.65	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/31/2017	0.25	36	36.6		35.25	35.04	36.92	35.24	36.38	34.06		33.81	30	28.37	36.4	37.82	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/1/2017	0.00	36	36.6		35.09	34.98	36.83	35.12	36.29	34.06		33.81	30	28.24	36.22	37.76	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/2/2017	0.00	36	36.6		35	34.92	36.73	35.07	36.2	34.06		33.81	30	28.09	36.12	37.7	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/3/2017	1.05	36.2	36.7		35.54	35.28	37.23	35.4	36.73	34.06		33.81	30	28.89	36.73	38.31	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/4/2017	0.50	36.2	36.8		35.97	35.46	37.47	35.55	36.93	34.06		33.81	30	29.27	37.15	38.77	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/5/2017	0.00	36.2	36.8		35.83	35.45	37.45	35.48	36.93	34.06		33.81	30	29.24	37.08	38.83	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/6/2017	0.05	36.2	36.8		35.53	35.38	37.3	35.38	36.8	34.06		33.81	30	28.99	36.81	38.71	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/7/2017	0.00	36.2	36.8		35.37	35.32	37.18	35.32	36.67	34.06		33.81	30	28.78	36.64	38.6	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/8/2017	0.30	36.3	36.8		35.27	35.27	37.09	35.28	36.56	34.06		33.81	30	28.62	36.52	38.48	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/9/2017	0.45	36.35	36.8		35.16	35.2	37.01	35.29	36.52	34.06		33.81	30	28.48	36.57	38.47	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/10/2017	0.00	36.4	36.7		35.08	35.16	36.93	35.24	36.44	34.06		33.81	30	28.37	36.43	38.36	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/11/2017	1.50	36.4	36.7		35.04	35.12	36.87	35.34	36.35	34.06		33.81	30	28.25	36.54	38.42	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/12/2017	0.80	36.4	36.7		35.38	35.16	36.92	35.44	36.51	34.06		33.81	30	28.51	36.55	38.54	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/13/2017	0.00	36.4	36.7		35.59	35.28	37.23	35.53																					

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
9/3/2017	1.10	37	37.2		36.5	36.04	38.17	35.84	37.46	34.06		34.01	30	29.27	38.36	40.68	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/4/2017	0.00	37.25	37.25		36.19	35.94	37.94	35.76	37.25	34.06		34.09	30	29.03	38.46	40.69	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/5/2017	0.00	37.25	37.25		36.06	35.89	37.84	35.73	37.12	34.06		34.08	30	28.9	38.22	40.54	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/6/2017	0.00	37.1	37.25		35.88	35.86	37.73	35.71	36.98	34.06		34.07	30	28.74	38.22	40.46	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/7/2017	0.00	37.1	37.3		35.73	35.82	37.64	35.67	36.86	34.06		34	30	28.62	38.13	40.33	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/8/2017	1.75	37.1	37.3		35.69	35.82	37.56	35.77	36.78	34.06		33.97	30	28.51	38.24	40.47	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/9/2017	5.00	37.3	37.5		36.9	36.21	38.48	36.04	38.02	34.06		34.43	30	30.16	38.79	41.09	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/10/2017	0.00	37.3	37.5		37.2	36.45	38.79	36.13	38.33	34.06		35.51	30	30.88	38.83	41.21	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/11/2017	0.00	37.7	38.4		37.5	37.34	39.29	36.4	39.03	36.77		37.82	32.69	31.89	39.56	41.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/12/2017	0.00	38.2	38.45		37.37	37.37	39.21	36.19	38.74	37.25		37.43	33.64	31.84	39.4	41.06	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/13/2017	0.00	38.35	38.5		37.32	37.38	39.17	36.1	38.48	37.43		37.16	33.81	31.73	39.28	41.01	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/14/2017	0.05	38.5	38.6		37.27	37.37	39.13	36.05	38.28	37.47		36.97	33.84	31.66	39.19	40.99	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/15/2017	0.00	38.5	38.6		37.24	37.36	39.11	36.03	38.15	37.49		36.81	33.84	31.61	39.12	40.98	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/16/2017	0.00	38.5	38.6		37.2	37.34	39.09	36	38.02	37.46		36.68	33.78	31.58	39.05	40.94	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/17/2017	0.00	38.5	38.6		37.17	37.32	39.05	35.98	37.91	37.45		36.56	33.81	31.55	38.97	40.91	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/18/2017	0.55	38.5	38.6		37.34	37.35	39.22	36.17	38.42	37.54		36.59	33.88	31.58	38.97	41.01	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/19/2017	0.60	38.7	39		37.24	37.35	39.08	36.05	38.07	37.5		36.52	33.84	31.59	38.9	40.98	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/20/2017	0.00	38.7	39.1		37.14	37.3	39.04	36.01	37.85	37.46		36.39	33.79	31.57	38.82	40.94	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/21/2017	0.00	38.7	39.1		37.09	37.27		35.99	37.75			36.29	33.78	31.55	38.76	40.91	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/22/2017	0.00	38.7	39.1		37.12	37.27		36.01	37.72			36.22	33.82	31.54	38.72	40.89	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/23/2017	0.00	38.7	39.1		37.09	37.28		35.98	37.65			36.14	33.78	31.53	38.67	40.88	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/24/2017	0.00	38.7	39.1		37.1	37.28		35.99	37.65			36.08	33.82	31.54	38.64	40.9	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/25/2017	0.00	38.7	39.2		37.08	37.27		35.97	37.57			36.02	33.77	31.52	38.59	40.85	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/26/2017	0.00	38.7	39.2		37.06	37.26		35.95	37.52			35.96	33.67	31.51	38.54	40.81	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/27/2017	0.00	38.7	39.2		37.04	37.25		35.94	37.47			35.9	33.6	31.5	38.49	40.74	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/28/2017	0.00	38.7	39.1		37.03	37.23		35.93	37.42			35.82	33.55	31.48	38.44	40.67	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/29/2017	1.00	38.7	39.1		37.03	37.22		35.93	37.38			35.77	33.54	31.46	38.43	40.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/30/2017	0.50	38.7	39.1		37.28	37.29		36.1	38			35.87	33.84	31.53	38.63	40.88	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/1/2017	1.55	38.7	39.1		37.4	37.34		36.23	38.09			35.92	33.96	31.53	38.57	40.85	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/2/2017	0.00	39.1	39.3		37.42	37.62		36.23	38.68			37.02	34.53	31.86	38.89	41.09	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/3/2017	0.00	39.1	39.3		37.37	37.62		36.17	38.37			36.81	34.55	31.77	38.81	41.04	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/4/2017	0.00	39.1	39.3		37.26	37.58		36.15	38.18			36.65	34.55	31.7	38.74	41	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/5/2017	2.25	39.1	39.3		37.37	37.6		36.27	38.59			36.69	34.64	31.71	38.83	41.13	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/6/2017	0.00	39.1	39.3		37.48	37.74		36.27	38.8			37.33	34.91	31.87	38.99	41.11	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/7/2017	0.00	39.5	39.6		37.4	37.72		36.23	38.5			37.09	34.95	31.8	38.92	41.06	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/8/2017	0.12	39.5	39.6		37.33	37.67		36.2	38.3			36.89	34.96	31.74	38.84	41.03	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/9/2017	0.05	39.5	39.7		37.4	37.72		36.24	38.65		35.27	37.28	35.1	31.76	39.01	41.11	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/10/2017	0.00	39.5	39.7		37.34	37.68		36.21	38.38			37.04	35.11	31.73	38.94	41.07	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/11/2017	0.00	39.5	39.7		37.3	37.64		36.19	38.21			36.85	35.1	31.68	38.86	41.04	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/12/2017	0.00	39.6	39.8		37.26	37.62		36.17	38.08			36.72	35.09	31.64	38.79	41.01	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/13/2017	0.00	39.6	39.8		37.23	37.59		36.15	38.01			36.62	35.09	31.6	38.74	40.99	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/14/2017	0.00	39.6	39.8		37.21	37.57		36.15	37.93			36.57	35.07	31.58	38.67	40.96	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/15/2017	0.00	39.6	39.8		37.2	37.55		36.15	37.88			36.51	35.06	31.55	38.7	41	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/16/2017	0.00	39.7	40.1		37.2	37.54		36.15	37.86			36.48	35.04	31.53	38.72	41.03	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3		

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
11/6/2017	0.00	40.6	41.3		37.22	37.51		36.2	38.11			37.9	35.73	31.48	38.46	40.73	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/7/2017	0.00	40.65	41.35		37.21	37.49		36.2	38.11			38.11	35.71	31.47	38.42	40.68	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/8/2017	0.00	40.75	41.4		37.2	37.49		36.2	38.1			38.19	35.7	31.46	38.41	40.63	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/9/2017	0.00	40.7	41.3		37.2	37.48		36.2	38.11			38.23	35.69	31.46	38.39	40.58	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/10/2017	0.00	40.7	41.3		37.19	37.47		36.19	38.09			38.23	35.68	31.45	38.39	40.53	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/11/2017	0.00	40.7	41.3		37.18	37.45		36.2	38.12			38.26	35.68	31.44	38.38	40.47	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/12/2017	0.00	40.7	41.3		37.16	37.45		36.18	38.09			38.24	35.66	31.44	38.36	40.4	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/13/2017	0.00	40.7	41.2		37.18	37.44		36.2	38.12			38.26	35.65	31.43	38.37	40.36	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/14/2017	0.00	40.6	41.1		37.17	37.43		36.19	38.14			38.26	35.64	31.43	38.35	40.31	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/15/2017	0.00	40.7	41.2		37.17	37.43		36.19	38.14			38.26	35.63	31.43	38.33	40.24	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/16/2017	0.00	40.7	41.2		37.17	37.42		36.19	38.12			38.22	35.62	31.43	38.28	40.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/17/2017	0.00	40.7	41.2		37.15	37.39		36.18	38.09			38.19	35.6	31.41	38.25	40.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/18/2017	0.00	40.7	41.2		37.15	37.36		36.19	38.1			38.21	35.59	31.41	38.23	40.04	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/19/2017	0.00	40.7	41.2		37.14	37.38		36.18	38.1			38.19	35.57	31.4	38.26	40.02	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/20/2017	0.00	40.7	41.2		37.13	37.39		36.16	38.07		35.71	38.35	35.55	31.4	38.18	39.92	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/21/2017	0.40	40.7	41.2		37.15	37.39		36.17	38.1		35.8	38.5	35.63	31.39	38.33	39.96	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/22/2017	0.50	40.6	41.2		37.18	37.36		36.19	38.19		35.77	38.49	35.7	31.4	38.23	39.96	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/23/2017	0.80	40.55	40.8		37.25	37.4		36.24	38.45		35.88	38.6	35.8	31.43	38.6	40.56	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/24/2017	0.00	40.55	40.8		37.33	37.47		36.27	38.8		36.37	38.37	35.99	31.55	38.58	40.82	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/25/2017	0.00	40.55	40.8		37.25	37.5		36.23	38.62		36.3	38.18	35.98	31.54	38.45	40.68	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/26/2017	0.00	40.55	40.8		37.22	37.47		36.21	38.48		36.19	38.15	35.96	31.53	38.4	40.54	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/27/2017	0.00	40.6	41		37.2	37.47		36.21	38.39		36.12	38.42	35.95	31.51	38.39	40.45	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/28/2017	0.00	40.6	41		37.17	37.42		36.2	38.33		36.03	38.51	36.01	31.5	38.42	40.4	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/29/2017	0.00	40.6	41		37.17	37.43		36.19	38.31		36.01	38.43	36.07	31.49	38.36	40.31	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/30/2017	0.00	40.6	41		37.17	37.41		36.2	38.28		36.01	38.13	36.05	31.48	38.34	40.25	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/1/2017	0.00	40.6	41		37.16	37.37		36.19	38.24		35.89	38.1	36.03	31.47	38.31	40.16	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/2/2017	0.00	40.6	41		37.16	37.4		36.19	38.21		35.93	38.1	36.01	31.46	38.34	40.12	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/3/2017	0.00	40.6	41		37.16	37.39		36.19	38.2		35.94	38.1	36	31.45	38.31	40.06	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/4/2017	0.00	40.6	40.8		37.14	37.35		36.18	38.18		35.88	38.08	35.98	31.44	38.28	39.97	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/5/2017	0.00	40.6	40.8		37.15	37.38		36.18	38.18		35.92	38.13	35.96	31.43	38.28	39.94	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/6/2017	0.00	40.6	41		37.15	37.39		36.18	38.19		35.96	38.22	35.95	31.43	38.25	39.89	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/7/2017	0.00	40.6	41		37.15	37.37		36.18	38.19		36.02	38.24	35.95	31.42	38.33	39.89	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/8/2017	1.25	40.6	40.8		37.16	37.38		36.19	38.25		36.06	38.24	35.94	31.43	38.27	39.86	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/9/2017	0.00	40.6	40.8		37.32	37.49		36.27	38.82		36.46	38.43	36.07	31.54	38.61	40.8	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/10/2017	0.00	40.65	40.8		37.23	37.46		36.22	38.61		36.35	38.26	36.05	31.53	38.45	40.6	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/11/2017	0.00	40.6	40.8		37.2	37.46		36.21	38.48		36.31	38.36	36.05	31.52	38.41	40.47	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/12/2017	0.00	40.6	40.8		37.19	37.48		36.21	38.43		36.35	38.24	36.04	31.5	38.4	40.4	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/13/2017	0.00	40.6	40.8		37.18	37.43		36.19	38.34		36.17	38.19	36.02	31.49	38.37	40.27	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/14/2017	0.00	40.6	40.8		37.17	37.44		36.19	38.3		36.11	38.19	36.01	31.48	38.36	40.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/15/2017	0.00	40.6	40.8		37.16	37.37		36.18	38.27		36.03	38.18	35.99	31.47	38.33	40.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/16/2017	0.00	40.6	40.8		37.15	37.42		36.18	38.24		35.95	38.18	35.98	31.46	38.33	40.02	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/17/2017	0.00	40.6	40.8		37.15	37.37		36.18	38.23		35.92	38.18	35.96	31.46	38.31	39.94	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/18/2017	0.00	40.6	40.8		37.15	37.29		36.18	38.24		35.87	38.16	35.94	31.45	38.3	39.87	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/19/2017	0.00	40.6	40.8		37.15	37.39		36.18	38.24		35.86	38.2	35.93	31.44	38.29	39.81	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3		

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
1/1/2018	0.13	40.6	40.6		37.2	37.35	39.16	36.22	38.43	37.92	35.69	38.25	35.77	31.42	38.35	39.59	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/2/2018	0.00	40.6	40.6		37.17	37.34	39.08	36.16	38.31	37.9	35.69	38.16	35.75	31.43	38.2	39.45	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/3/2018	1.00	40.6	40.7		37.36	37.46	39.29	36.33	38.88	38.3	36.13	38.64	35.88	31.48	38.68	40.74	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/4/2018	0.00	40.6	40.8		37.25	37.44	39.17	36.23	38.72	38.08	36.34	38.22	35.91	31.55	38.45	40.48	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/5/2018	0.00	40.6	40.8		37.2	37.51	39.15	36.2	38.55	38.04	36.16	38.16	35.89	31.54	38.38	40.26	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/6/2018	0.00	40.6	40.8		37.16	37.5	39.14	36.19	38.45	38.01	36.07	38.15	35.87	31.53	38.36	40.12	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/7/2018	0.00	40.6	40.8		37.15	37.4	39.13	36.19	38.39	38	36	38.16	35.85	31.51	38.36	40.03	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/8/2018	0.05	40.6	40.9		37.16	37.46	39.13	36.2	38.45	38.01	36.05	38.24	35.86	31.51	38.46	40.15	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/9/2018	1.35	40.7	40.9		37.15	37.43	39.14	36.2	38.41	38	35.98	38.31	35.85	31.5	38.55	40.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/10/2018	0.10	40.8	41		37.3	37.48	39.26	36.28	38.88	38.18	36.38	38.46	35.96	31.58	38.6	40.71	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/11/2018	0.00	40.8	41.2		37.24	37.48	39.21	36.23	38.71	38.14	36.48	38.3	35.98	31.59	38.47	40.53	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/12/2018	0.00	40.1	41.4		37.21	37.46	39.21	36.23	38.62	38.15	36.45	38.31	36	31.58	38.49	40.46	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/13/2018	0.00	40.4	41.6		37.19	37.42	39.19	36.21	38.51	38.13	36.23	38.24	35.98	31.57	38.44	40.31	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/14/2018	0.00	40.4	41.4		37.18	37.43	39.17	36.21	38.43	38.11	36.15	38.26	35.97	31.55	38.42	40.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/15/2018	0.00	40.4	41.6		37.15	37.46	39.15	36.2	38.4	38.1	36.11	38.22	35.96	31.54	38.39	40.09	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/16/2018	0.00	40.8	41.3		37.15	37.43	39.14	36.21	38.37	38.08	36.03	38.2	35.96	31.53	38.37	40	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/17/2018	0.00	40.8	41.3		37.14	37.44	39.13	36.21	38.37	38.08	35.99	38.21	35.95	31.52	38.34	39.92	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/18/2018	0.00	40.8	41.4		37.14	37.37	39.12	36.2	38.33	38.06	35.91	38.22	35.94	31.51	38.36	39.85	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/19/2018	0.00	40.8	41.5		37.13	37.32	39.11	36.21	38.34	38.05	35.93	38.22	35.95	31.5	38.34	39.76	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/20/2018	0.00	40.8	41.5		37.12	37.35	39.11	36.2	38.34	38.05	35.86	38.2	35.94	31.5	38.31	39.69	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/21/2018	0.00	40.8	41.5		37.12	37.46	39.11	36.2	38.36	38.03	35.87	38.26	35.94	31.49	38.33	39.66	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/22/2018	0.00	40.8	41.5		37.12	37.34	39.11	36.21	38.38	37.97	35.85	38.26	35.94	31.49	38.29	39.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/23/2018	0.10	40.8	41.5		37.18	37.39	39.14	36.23	38.59	37.99	35.86	38.29	35.96	31.51	38.39	39.93	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/24/2018	0.00	40.8	41.5		37.14	37.31	39.13	36.2	38.45	37.96	35.78	38.26	35.96	31.51	38.31	39.71	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/25/2018	0.00	40.8	41.6		37.11	37.39	39.11	36.19	38.36	37.94	35.7	38.19	35.94	31.49	38.28	39.54	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/26/2018	0.00	40.9	41.6		37.09	37.42	39.1	36.19	38.33	37.92	35.69	38.25	35.95	31.49	38.25	39.43	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/27/2018	0.00	40.9	41.4		37.11	37.34	39.1	36.19	38.34	37.91	35.74	38.28	35.96	31.48	38.24	39.39	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/28/2018	0.00	40.9	41.4		37.13	37.36	39.1	36.2	38.38	37.92	35.79	38.31	35.97	31.48	38.25	39.38	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/29/2018	1.50	41.1	41.8		37.39	37.45	39.3	36.32	39.04	38.29	36.79	38.53	36.19	31.64	38.64	40.7	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/30/2018	0.00	41.1	41.8		37.25	37.49	39.23	36.25	38.85	38.18	36.68	38.38	36.21	31.65	38.51	40.56	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/31/2018	0.00	41.1	41.6		37.21	37.4	39.2	36.24	38.71	38.17	36.53	38.39	36.23	31.62	38.46	40.45	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/1/2018	0.00	41.1	41.6		37.2	37.46	39.18	36.24	38.64	38.16	36.42	38.42	36.26	31.6	38.44	40.37	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/2/2018	0.00	41.1	41.8		37.18	37.48	39.17	36.23	38.59	38.14	36.33	38.36	36.28	31.58	38.41	40.28	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/3/2018	0.00	41.1	41.6		37.17	37.43	39.16	36.22	38.54	38.12	36.25	38.39	36.29	31.57	38.42	40.22	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/4/2018	0.10	41.1	41.6		37.17	37.39	39.16	36.23	38.53	38.13	36.31	38.4	36.33	31.55	38.43	40.2	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/5/2018	0.00	41.1	41.8		37.19	37.43	39.17	36.23	38.61	38.12	36.19	38.39	36.35	31.56	38.41	40.26	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/6/2018	0.00	41.1	41.8		37.17	37.41	39.14	36.22	38.52	38.11	36.11	38.36	36.36	31.55	38.38	40.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/7/2018	0.00	41.1	41.7		37.16	37.42	39.14	36.22	38.51	38.11	36.1	38.4	36.39	31.54	38.36	40.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/8/2018	0.00	41.1	41.7		37.16	37.38	39.14	36.22	38.49	38.08	36.08	38.47	36.39	31.53	38.4	40.06	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/9/2018	0.00	41.1	41.7		37.15	37.37	39.13	36.22	38.47	38.09	36.14	38.46	36.4	31.53	38.35	40	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/10/2018	0.00	41.2	41.7		37.14	37.39	39.13	36.21	38.46	38.08	36.14	38.43	36.44	31.52	38.35	39.96	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/11/2018	0.10	41.2	41.8		37.14	37.31	39.12	36.21	38.43	38.06	36.08	38.42	36.46	31.52	38.32	39.86	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/12/2018	0.00	41.1	41.8																										

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
3/5/2018	0.00	40.7	40.9		37.04	37.26	38.99	36.14	38.17	37.68	35.58	38.14	36.34	31.36	37.66	38.79	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/6/2018	0.05	40.6	40.7		37.02	37.26	38.98	36.13	38.15	37.65	35.56	38.13	36.33	31.36	37.63	38.76	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/7/2018	0.00	40.7	40.7		37.02	37.23	38.98	36.12	38.16	37.62	35.5	38.1	36.29	31.35	37.76	38.83	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/8/2018	0.00	40.7	40.7		37.02	37.26	38.96	36.12	38.1	37.59	35.47	38.08	36.27	31.34	37.62	38.74	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/9/2018	0.00	40.7	40.7		36.99	37.2	38.95	36.12	38.08	37.47	35.42	38.06	36.24	31.33	37.55	38.7	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/10/2018	0.00	40.7	40.7		36.99	37.21	38.23	36.12	38.09	37.44	35.43	38.07	36.21	31.32	37.52	38.67	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/11/2018	0.00	40.7	40.7		36.99	37.2	37.63	36.12	38.1	37.42	35.42	38.07	36.19	31.31	37.51	38.63	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/12/2018	0.05	40.7	40.7		37.1	37.22	38.82	36.19	38.32	37.44	35.44	38.22	36.19	31.33	37.88	38.72	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/13/2018	0.00	40.5	40.5		37.02	37.22	38.81	36.13	38.12	37.36	35.32	38.03	36.15	31.32	37.49	38.61	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/14/2018	0.00	40.5	40.5		36.98	37.22	38.47	36.11	38.04	37.33	35.28	38.02	36.11	31.31	37.44	38.58	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/15/2018	0.00	40.5	40.5		36.96	37.18	38.32	36.11	38.01	37.29	35.26	38.01	36.09	31.3	37.38	38.55	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/16/2018	0.00	40.5	40.5		36.95	37.23	37.86	36.1	38	37.26	35.24	38.01	36.06	31.29	37.34	38.5	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/17/2018	0.00	40.4	40.5		36.94	37.18	37.47	36.09	37.97	37.23	35.21	37.98	36.03	31.28	37.3	38.46	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/18/2018	0.00	40.4	40.5		36.92	37.2	37.49	36.08	37.95	37.2	35.16	37.99	36	31.27	37.26	38.44	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/19/2018	0.60	40.3	40.3		37.12	37.19	38.44	36.17	38.33	37.25	35.21	38.22	36.01	31.3	37.82	38.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/20/2018	0.30	40.4	40.3		37.2	37.31	38.08	36.21	38.67	37.5	35.73	38.19	36.11	31.38	38.43	39.7	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/21/2018	0.00	40.2	40.3		37.18	37.36	38.99	36.2	38.65	37.55	35.88	38.11	36.15	31.45	38.19	39.75	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/22/2018	0.00	40.2	40.4		37.1	37.33	39	36.17	38.43	37.48	35.71	38.04	36.12	31.44	38.03	39.58	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/23/2018	0.00	40.2	40.4		37.05	37.31	38.62	36.15	38.3	37.43	35.59	38.02	36.08	31.42	37.93	39.43	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/24/2018	0.00	40.2	40.4		37.02	37.3	38.03	36.14	38.21	37.38	35.55	38	36.06	31.41	37.84	39.33	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/25/2018	0.00	40.2	40.4		37	37.27	37.68	36.14	38.15	37.34	35.48	38	36.04	31.4	37.76	39.22	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/26/2018	0.05	40.3	40.4		37.04	37.22	38.7	36.15	38.15	37.31	35.37	38.05	36	31.39	37.83	39.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/27/2018	0.00	40.2	40.3		36.99	37.27	38.47	36.12	38.07	37.26	35.29	37.95	35.99	31.38	37.66	39.07	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/28/2018	0.00	40.3	40.4		36.97	37.24	38.1	36.12	38.02	37.23	35.27	37.94	35.96	31.37	37.59	38.99	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/29/2018	0.00	40.2	40.3		36.97	37.24	38.08	36.1	37.98	37.2	35.2	37.93	35.93	31.35	37.54	38.93	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/30/2018	0.00	40.1	40.3		36.94	37.22	37.91	36.09	37.94	37.16	35.15	37.93	35.89	31.34	37.47	38.85	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/31/2018	0.05	40.1	40.3		37.02	37.24	38.96	36.12	38.06	37.15	35.14	37.98	35.87	31.35	37.7	38.96	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/1/2018	0.00	40.2	40.1		37.01	37.23	38.29	36.11	38.01	37.15	35.13	37.96	35.85	31.34	37.6	38.86	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/2/2018	0.00	40.1	40.2		36.96	37.22	37.84	36.08	37.92	37.13	35.09	37.92	35.82	31.33	37.46	38.8	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/3/2018	0.00	40.1	40.2		36.95	37.21	38.1	36.08	37.93	37.1	35.06	37.91	35.8	31.32	37.41	38.74	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/4/2018	0.00	40.1	40.1		36.93	37.2	37.95	36.07	37.88	37.05	35.02	37.89	35.76	31.3	37.34	38.69	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/5/2018	0.00	40.1	40.1		36.91	37.19	38.66	36.05	37.82	37	34.96	37.86	35.72	31.29	37.26	38.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/6/2018	0.00	40	40.1		36.89	37.18	38.12	36.04	37.8	36.96	34.93	37.86	35.69	31.27	37.22	38.57	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/7/2018	0.25	40	40		36.91	37.17	37.81	36.04	37.79	36.93	34.94	37.89	35.67	31.25	37.19	38.53	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/8/2018	0.10	40	40		37.1	37.23	39.24	36.13	38.22	36.98	34.92	38.02	35.7	31.31	37.82	38.99	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/9/2018	0.00	40	40		37.08	37.24	38.25	36.12	38.2	36.97	34.92	37.99	35.7	31.32	37.76	39.01	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/10/2018	2.35	40.1	40.1		37.37	37.5	39.4	36.32	39.01	37.76	36.19	38.56	35.98	31.55	38.67	40.79	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/11/2018	0.00	40.4	40.2		37.3	37.56	39.17	36.28	38.96	37.78	37.06	38.24	36.09	31.67	38.61	40.77	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/12/2018	0.00	40.3	40.2		37.2	37.51	38.53	36.23	38.7	37.73	36.78	38.06	36.09	31.63	38.46	40.64	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/13/2018	0.00	40.3	40.3		37.15	37.47	38.35	36.21	38.52	37.7	36.56	38.03	36.08	31.59	38.4	40.54	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/14/2018	0.00	40.2	40.3		37.12	37.44	38.1	36.19	38.41	37.67	36.39	38	36.05	31.55	38.37	40.46	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/15/2018	0.35	40.2	40.3		37.09	37.41	37.95	36.18	38.3	37.64	36.25	37.99	36.05	31.52	38.33	40.39	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/16/2018	0.00	40.2	40.4		37.14	37.42																							

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
5/7/2018	0.00	40.1	40		37.11	37.28	38.97	36.13	38.26	37.27	35.24	37.87	35.63	31.35	38.2	40	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/8/2018	0.00	40.1	40.1		37.02	37.25	38.97	36.09	38.07	37.19	35.14	37.78	35.59	31.33	38.05	39.72	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/9/2018	0.00	40	40.2		36.97	37.24	38.91	36.07	37.94	37.14	35.08	37.73	35.55	31.32	37.93	39.53	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/10/2018	0.00	40	40		36.92	37.22	38.88	36.05	37.85	37.1	35.03	37.67	35.51	31.29	37.81	39.36	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/11/2018	0.00	40	40		36.9	37.2	38.89	36.03	37.76	37.06	34.99	37.7	35.47	31.27	37.68	39.22	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/12/2018	0.00	39.9	39.9		36.91	37.2	38.9	36.04	37.73	37.02	34.95	37.72	35.43	31.25	37.7	39.16	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/13/2018	0.00	39.9	39.9		36.9	37.19	38.87	36.03	37.69	37	34.93	37.65	35.41	31.24	37.6	39.09	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/14/2018	1.20	40	40		37.24	37.3	39.1	36.23	38.5	37.18	34.94	38.34	35.48	31.33	38.75	40.43	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/15/2018	0.85	40	39.9		37.17	37.33	39.04	36.19	38.54	37.22	35.23	38.17	35.54	31.39	38.49	40.51	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/16/2018	0.55	40.1	40.1		37.22	37.44	39.15	36.23	38.74	37.55	36.14	38.13	35.72	31.55	38.57	40.78	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/17/2018	0.00	40.2	40.3		37.26	37.52	39.26	36.26	38.94	37.79	36.95	38.16	35.87	31.64	38.64	40.91	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/18/2018	0.85	40.2	40.3		37.24	37.52	39.27	36.24	38.69	37.76	36.76	38.09	35.87	31.61	38.54	40.88	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/19/2018	1.75	40.2	40.3		37.24	37.51	39.49	36.25	38.94	37.76	36.57	38.68	35.86	31.58	38.92	41.28	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/20/2018	1.00	40.6	40.7		37.36	37.69	39.38	36.31	38.97	38.14	37.64	38.24	36.15	31.75	38.92	41.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/21/2018	0.30	40.4	40.8		37.44	37.75	39.51	36.37	39.08	38.33	37.86	38.78	36.24	31.75	38.94	41.25	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/22/2018	0.00	40.5	40.9		37.44	37.81	39.39	36.35	38.92	38.32	37.75	38.16	36.35	31.82	38.92	41.15	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/23/2018	0.00	40.7	41		37.37	37.74	39.31	36.31	38.72	38.31	37.43	38.02	36.34	31.75	38.82	41.11	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/24/2018	0.00	40.7	41		37.3	37.67	39.27	36.28	38.58	38.29	37.21	37.98	36.32	31.68	38.73	41.08	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/25/2018	0.00	40.7	41		37.29	37.62	39.29	36.31	38.57	38.28	37.08	38.37	36.3	31.66	38.66	41.06	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/26/2018	0.00	40.7	41		37.24	37.59	39.24	36.26	38.43	38.26	36.97	38.01	36.29	31.64	38.59	41.03	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/27/2018	0.85	40.7	41		37.3	37.6	39.29	36.3	38.7	38.36	37.17	38.34	36.34	31.65	38.68	41.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/28/2018	0.50	40.7	41		37.21	37.55	39.24	36.25	38.48	38.3	36.93	38.03	36.33	31.61	38.59	41.08	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/29/2018	0.30	40.7	41		37.22	37.55	39.23	36.24	38.42	38.3	36.84	38	36.32	31.61	38.55	41.05	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/30/2018	1.80	40.8	41.1		37.26	37.56	39.45	36.29	38.8	38.36	37.02	38.52	36.36	31.62	38.92	41.28	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/31/2018	0.55	40.9	41.3		37.4	37.77	39.39	36.35	38.94	38.56	37.83	38.26	36.6	31.83	38.83	41.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/1/2018	0.00	41	41.5		37.43	37.8	39.39	36.36	38.96	38.6	37.94	38.27	36.69	31.84	38.89	41.2	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/2/2018	0.00	41.1	41.5		37.36	37.74	39.33	36.33	38.77	38.57	37.64	38.15	36.69	31.76	38.82	41.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/3/2018	0.10	41.1	41.5		37.31	37.68	39.31	36.32	38.7	38.54	37.46	38.25	36.69	31.71	38.76	41.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/4/2018	0.00	41.1	41.5		37.26	37.61	39.27	36.29	38.57	38.51	37.28	38.1	36.67	31.68	38.69	41.13	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/5/2018	0.00	41.2	41.6		37.21	37.57	39.25	36.28	38.49	38.48	37.17	38.04	36.66	31.64	38.63	41.09	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/6/2018	0.05	41.1	41.6		37.2	37.52	39.24	36.27	38.45	38.46	37.07	38.11	36.63	31.6	38.64	41.07	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/7/2018	0.75	41.1	41.6		37.28	37.53	39.29	36.33	38.64	38.49	37.06	38.5	36.67	31.62	38.64	41.09	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/8/2018	0.00	41.1	41.6		37.24	37.52	39.26	36.28	38.59	38.46	37.01	38.14	36.67	31.62	38.58	41.06	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/9/2018	0.00	41.1	41.6		37.19	37.5	39.24	36.27	38.45	38.44	36.94	38.07	36.65	31.6	38.54	41.04	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/10/2018	0.10	41.1	41.6		37.15	37.47	39.24	36.25	38.39	38.42	36.87	38.03	36.64	31.57	38.51	41.01	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/11/2018	0.15	41.2	41.6		37.12	37.44	39.21	36.23	38.33	38.4	36.8	38	36.61	31.55	38.46	40.97	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/12/2018	0.00	41.2	41.6		37.11	37.42	39.19	36.22	38.27	38.37	36.71	37.97	36.58	31.52	38.41	40.92	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/13/2018	0.30	41.2	41.6		37.12	37.41	39.2	36.23	38.37	38.36	36.66	38.01	36.58	31.52	38.42	40.91	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/14/2018	0.00	41.2	41.6		37.11	37.4	39.18	36.22	38.33	38.34	36.6	37.99	36.56	31.51	38.39	40.89	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/15/2018	0.10	41.2	41.6		37.12	37.39	39.2	36.22	38.41	38.36	36.64	38.01	36.56	31.49	38.51	41	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/16/2018	0.00	41.2	41.6		37.12	37.38	39.2	36.22	38.49	38.34	36.6	38.05	36.56	31.48	38.47	40.99	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/17/2018	0.00	41.2	41.6		37.24	37.52	39.33	36.29	38.87	38.52	37.42	38.21	36.71	31.56	38.75	41.23	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/18/2018	0.00	41.3	41.6		37.17	37.5																							

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
7/1/2018	0.00	41.6	41.8		37.51	37.91	39.47	36.45	38.98	38.74	38.32	38.35	37.27	31.91	39.14	41.27	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/2/2018	0.00	41.6	41.8		37.42	37.82	39.42	36.4	38.88	38.66	38.02	38.3	37.29	31.81	39.07	41.24	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/3/2018	0.00	41.6	41.8		37.35	37.74	39.38	36.37	38.81	38.61	37.83	38.27	37.31	31.75	38.96	41.21	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/4/2018	0.00	41.6	41.8		37.3	37.68	39.34	36.35	38.68	38.57	37.69	38.28	37.32	31.7	38.86	41.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/5/2018	0.30	41.5	41.7		37.25	37.61	39.31	36.34	38.65	38.69	38.18	38.55	37.34	31.65	38.83	41.29	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/6/2018	0.00	41.5	42.1		37.3	37.63	39.36	36.35	38.89	38.76	38.62	38.74	37.51		39.01	41.43	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/7/2018	0.00	41.5	42.2		37.39	37.74	39.41	36.38	38.93	38.62	38.2	38.41	37.57		39.05	41.28	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/8/2018	0.50	41.5	42.2		37.35	37.71	39.38	36.37	38.83	38.6	38.03	38.39	37.62		38.98	41.25	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/9/2018	0.00	41.5	42.2		37.34	37.69	39.38	36.37	39.01	38.59	37.97	38.63	37.71		38.93	41.28	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/10/2018	0.00	41.5	42.2		37.28	37.65	39.34	36.35	38.78	38.55	37.8	38.4	37.74		38.88	41.23	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/11/2018	0.00	41	42.2		37.23	37.6	39.31	36.33	38.67	38.51	37.66	38.33	37.76		38.67	41.21	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/12/2018	0.00	41.3	42		37.2	37.55	39.28	36.31	38.58	38.48	37.57	38.31	37.78		38.68	41.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/13/2018	0.00	41.3	41.9		37.17	37.52	39.26	36.29	38.52	38.45	37.51	38.29	37.8		38.65	41.13	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/14/2018	0.00	41.3	41.7		37.15	37.48	39.24	36.27	38.48	38.43	37.47	38.27	37.81		38.14	41.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/15/2018	2.00	41.3	41.7		37.19	37.48	39.29	36.28	38.79	38.5	37.77	38.54	37.89		38.49	41.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/16/2018	0.00	41.2	41.7		37.2	37.48	39.27	36.28	38.68	38.46	37.61	38.33	37.91		38	41.15	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/17/2018	0.05	41.2	41.7		37.15	37.45	39.25	36.27	38.59	38.44	37.54	38.29	37.93		38.02	41.12	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/18/2018	0.00	41.2	41.7		37.19	37.47	39.27	36.29	38.81	38.48	37.76	38.61	37.98		38.87	41.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/19/2018	0.00	40.8	41.7		37.19	37.47	39.25	36.28	38.69	38.45	37.62	38.33	37.99	31.51	37.86	41.16	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/20/2018	0.75	41.1	41.7		37.22	37.54	39.39	36.37	38.9	38.55	38.07	38.66	38.05	31.46	39.08	41.22	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/21/2018	0.80	41.1	41.7		37.25	37.52	39.3	36.32	38.77	38.47	37.85	38.38	38.06	31.5	37.92	41.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/22/2018	0.00	41.1	41.7		37.18	37.49	39.26	36.28	38.63	38.67	38.28	38.77	38.13	31.46	38.37	41.15	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/23/2018	0.15	41.1	41.7		37.29	37.54	39.34	36.33	38.88	38.53	38.08	38.58	38.17	31.51	38.01	41.23	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/24/2018	0.20	41.1	41.7		37.23	37.54	39.34	36.32	38.84	38.55	38.11	38.57	38.19	31.5	38.75	41.24	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/25/2018	0.10	41.1	41.7		37.23	37.55	39.32	36.32	38.76	38.52	37.97	38.5	38.21	31.49	38.5	41.22	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/26/2018	0.00	41.1	41.7		37.18	37.52	39.28	36.29	38.64	38.48	37.84	38.37	38.21	31.47	38	41.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/27/2018	0.40	41.1	41.7		37.16	37.5	39.26	36.28	38.59	38.45	37.79	38.33	38.22	31.45	37.86	41.15	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/28/2018	2.40	41.1	41.7		37.2	37.5	39.28	36.29	38.66	38.46	37.85	38.37	38.24	31.45	38.12	41.15	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/29/2018	0.25	41.1	41.8		37.28	37.55	39.31	36.33	38.79	38.48	38.04	38.42	38.3	31.53	38.15	41.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/30/2018	0.30	41.2	41.9		37.3	37.6	39.35	36.35	38.91	38.55	38.26	38.44	38.37	31.59	38.04	41.24	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/31/2018	0.10	41.2	42		37.3	37.62	39.35	36.35	38.86	38.55	38.28	38.46	38.45	31.59	38.11	41.23	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/1/2018	0.55	41.2	42		37.29	37.64	39.36	36.35	38.85	38.57	38.38	38.49	38.48	31.59	38.08	41.24	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/2/2018	0.05	41.1	42		37.35	37.68	39.41	36.38	38.94	38.6	38.5	38.53	38.57	31.64	38.35	41.26	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/3/2018	0.00	41.1	42		37.29	37.66	39.35	36.36	38.82	38.57	38.42	38.54	38.58	31.6	38.52	41.22	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/4/2018	0.00	41.1	42.1		37.26	37.65	39.35	36.35	38.76	38.53	38.36	38.5	38.59	31.57	38.25	41.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/5/2018	0.00	41.1	42.2		37.24	37.63	39.32	36.34	38.72	38.5	38.32	38.5	38.6	31.53	38.25	41.15	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/6/2018	0.00	41.1	42.2		37.22	37.6	39.3	36.33	38.71	38.47	38.3	38.5	38.6	31.5	38.13	41.12	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/7/2018	0.05	41.1	42.2		37.2	37.57	39.28	36.32	38.69	38.45	38.28	38.5	38.61	31.47	38.12	41.08	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/8/2018	0.80	41.1	42.2		37.17	37.54	39.25	36.3	38.67	38.42	38.25	38.49	38.6	31.44	37.7	41.03	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/9/2018	0.01	41.1	43		37.26	37.56	39.31	36.35	38.9	38.46	38.47	38.59	38.69	31.52	37.91	41	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/10/2018	0.00	41.1	42		37.27	37.56	39.33	36.36	38.91	38.56	38.65	38.73	38.75	31.52	38.63	41.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/11/2018	0.00	41.1	42		37.26	37.56	39.33	36.36	38.87	38.49	38.57	38.66	38.76	31.52	37.97	41.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/12/2018	1.70	41.1	42		37.2	37.53	39.3	36.33	38																				

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
9/2/2018	0.00	41	41.7		37.2	37.59	39.34	36.34	39	38.5	38.92	38.89	39.05	31.55	37.91	40.75	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/3/2018	0.30	41	41.6		37.19	37.56	39.33	36.34	38.99	38.49	38.91	38.88	39.07	31.53	38.13	40.7	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/4/2018	0.00	41.1	41.6		37.2	37.53	39.34	36.34	39.01	38.51	38.93	38.9	39.06	31.53	37.94	40.84	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/5/2018	0.25	41	41.6		37.16	37.49	39.32	36.32	38.99	38.48	38.91	38.88	39.05	31.5	37.78	40.74	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/6/2018	0.00	41	41.6		37.13	37.43	39.3	36.3	38.97	38.46	38.89	38.87	39.04	31.48	37.78	40.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/7/2018	0.00	41	41.5		37.12	37.38	39.28	36.29	38.96	38.45	38.88	38.86	39.02	31.45	37.7	40.51	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/8/2018	0.00	41	41.6		37.1	37.33	39.26	36.27	38.95	38.44	38.86	38.84	39.01	31.43	37.83	40.4	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/9/2018	0.00	41	41.5		37.09	37.3	39.25	36.27	38.94	38.41	38.84	38.83	39	31.41	37.6	40.29	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/10/2018	0.00	40.9	41.5		37.09	37.27	39.24	36.26	38.92	38.39	38.82	38.81	38.98	31.39	37.62	40.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/11/2018	0.00	40.9	41.5		37.08	37.24	39.22	36.25	38.91	38.37	38.8	38.8	38.95	31.38	37.74	40.07	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/12/2018	0.00	40.9	41.1		37.07	37.26	39.21	36.24	38.89	38.35	38.77	38.78	38.93	31.36	37.65	39.98	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/13/2018	0.00	40.9	41.1		37.11	37.34	39.22	36.25	38.9	38.35	38.75	38.77	38.92	31.36	37.29	39.88	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/14/2018	0.00	40.9	41.1		37.06	37.37	39.19	36.24	38.87	38.33	38.73	38.75	38.9	31.34	36.97	39.81	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/15/2018	0.00	40.8	41.1		37.03	37.37	39.18	36.21	38.85	38.35	38.69	38.73	38.92	31.32	37.28	39.71	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/16/2018	0.00	40.8	41		37.09	37.4	39.22	36.24	38.9	38.33	38.71	38.74	38.89	31.34	37.04	39.76	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/17/2018	0.00	40.8	41		37.05	37.35	39.19	36.22	38.85	38.31	38.67	38.72	38.87	31.32	37.21	39.61	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/18/2018	1.05	40.8	41		37.04	37.32	39.17	36.21	38.83	38.29	38.64	38.7	38.88	31.31	37.02	39.52	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/19/2018	0.00	40.6	40.8		37.09	37.35	39.23	36.24	38.89	38.39	38.71	38.72	38.87	31.32	37.52	40.61	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/20/2018	0.00	40.7	40.8		37.04	37.34	39.2	36.21	38.85	38.36	38.66	38.69	38.85	31.31	37.78	40.37	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/21/2018	0.00	40.7	40.8		37.01	37.33	39.18	36.19	38.81	38.34	38.62	38.67	38.83	31.29	37.96	40.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/22/2018	0.00	40.6	40.8		37.13	37.36	39.23	36.24	38.88	38.36	38.65	38.68	38.82	31.29	38.11	40.11	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/23/2018	0.00	40.6	40.7		37.02	37.34	39.18	36.2	38.8	38.32	38.57	38.63	38.79	31.28	37.63	39.95	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/24/2018	0.00	40.6	40.5		37.01	37.33	39.16	36.19	38.78	38.31	38.54	38.62	38.77	31.27	37.71	39.81	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/25/2018	0.00	40.6	40.5		36.98	37.32	39.14	36.16	38.75	38.28	38.49	38.58	38.75	31.26	37.58	39.67	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/26/2018	0.00	40.6	40.5		36.99	37.31	39.13	36.16	38.74	38.27	38.46	38.57	38.73	31.25	37.35	39.54	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/27/2018	0.00	40.5	40.5		36.97	37.31	39.11	36.15	38.72	38.25	38.42	38.55	38.7	31.24	36.97	39.42	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/28/2018	0.00	40.5	40.4		36.96	37.3	39.1	36.14	38.7	38.23	38.38	38.53	38.68	31.22	37.02	39.31	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/29/2018	0.00	40.4	40.4		36.94	37.3	39.08	36.13	38.69	38.21	38.35	38.52	38.66	31.21	37.11	39.22	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/30/2018	0.00	40.4	40.3		36.92	37.28	39.07	36.11	38.66	38.19	38.31	38.49	38.64	31.2	37.27	39.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/1/2018	0.80	40.3	40.3		37.08	37.29	39.15	36.18	38.74	38.23	38.36	38.61	38.63	31.2	38.31	39.24	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/2/2018	0.00	40.4	40.4		37.18	37.4	39.23	36.26	38.92	38.34	38.59	38.61	38.73	31.36	38.18	40.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/3/2018	0.00	40.3	40.4		37.1	37.38	39.19	36.22	38.82	38.32	38.54	38.6	38.71	31.35	37.84	40.13	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/4/2018	0.00	40.3	40.3		37.03	37.36	39.16	36.19	38.75	38.29	38.46	38.55	38.69	31.34	37.5	39.79	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/5/2018	0.00	40.3	40.3		37	37.34	39.13	36.17	38.71	38.28	38.41	38.54	38.67	31.32	37.4	39.6	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/6/2018	0.00	40.2	40.2		36.99	37.33	39.12	36.16	38.66	38.25	38.37	38.51	38.66	31.31	37.58	39.44	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/7/2018	0.05	40.1	40.2		36.96	37.32	39.1	36.14	38.64	38.23	38.32	38.5	38.64	31.29	37.61	39.31	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/8/2018	0.35	40.2	40.2		36.94	37.31	39.1	36.14	38.63	38.22	38.29	38.48	38.63	31.27	37.46	39.2	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/9/2018	0.00	40.2	40.2		37.12	37.35	39.21	36.22	38.82	38.31	38.48	38.6	38.64	31.3	37.94	40.08	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/10/2018	0.00	40.1	40.2		37	37.34	39.13	36.16	38.69	38.26	38.36	38.52	38.63	31.29	37.54	39.86	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/11/2018	0.00	40.1	40.2		37.03	37.35	39.14	36.16	38.65	38.27	38.32	38.5	38.61	31.3	37.32	39.66	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/12/2018	0.00	40.1	40.2		36.99	37.33	39.11	36.14	38.6	38.24	38.26	38.46	38.59	31.28	37.13	39.45	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/13/2018	0.00	40.1	40.1		36.92	37.32	39.08	36.11	38.56	38.2	38.19	38.42	38.57	31.27	37.27	39.24	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/14/2018	0.00	40.1	40.1																										

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
11/4/2018	0.25	40	40.2		37.08	37.51	39.21	36.23	38.66	38.38	38.32	38.5	38.55	31.4	38.02	39.75	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/5/2018	0.00		40.2		37.11	37.5	39.23	36.23	38.7	38.4	38.35	38.51	38.56	31.41	37.64	39.96	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/6/2018	0.00	40.1	40.3		37.06	37.48	39.21	36.21	38.63	38.38	38.28	38.47	38.54	31.41	37.61	39.76	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/7/2018	0.00	40.1	40.3		37.04	37.46	39.2	36.21	38.6	38.37	38.23	38.46	38.53	31.39	37.33	39.6	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/8/2018	0.00	40.1	40.3		37.02	37.45	39.18	36.19	38.57	38.35	38.18	38.43	38.51	31.38	37.29	39.48	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/9/2018	0.00	40.1	40.3		36.9	37.43	39.17	36.18	38.54	38.33	38.15	38.42	38.5	31.37	37.45	39.36	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/10/2018	0.00	40.1	40.3		36.91	37.39	39.17	36.18	38.55	38.33	38.12	38.42	38.49	31.35	38.3	39.28	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/11/2018	0.00	40.1	40.3		36.87	37.39	39.15	36.17	38.52	38.31	38.08	38.39	38.47	31.34	37.85	39.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/12/2018	0.10	40.1	40.3		36.87	37.4	39.14	36.17	38.52	38.3	38.11	38.56	38.48	31.33	38.5	39.15	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/13/2018	0.00	40.2	40.4		36.95	37.42	39.17	36.2	38.61	38.32	38.1	38.43	38.46	31.35	37.39	39.41	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/14/2018	0.00	40.2	40.1		36.9	37.4	39.15	36.18	38.55	38.3	38.05	38.42	38.45	31.34	37.88	39.24	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/15/2018	0.00	40.2	40.1		36.91	37.39	39.15	36.19	38.56	38.29	38.04	38.4	38.44	31.34	38.23	39.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/16/2018	0.00	40.2	40.1		36.89	37.42	39.14	36.17	38.52	38.27	37.99	38.37	38.42	31.32	38.35	39.09	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/17/2018	0.00	40.1	40.1		36.86	37.38	39.12	36.15	38.48	38.24	37.95	38.35	38.4	31.31	37.69	39.02	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/18/2018	0.00	40.1	40.1		36.87	37.32	39.11	36.15	38.48	38.23	37.93	38.36	38.38	31.3	37.29	38.97	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/19/2018	0.00	40.2	40.1		36.87	37.38	39.1	36.15	38.49	38.22	37.92	38.36	38.37	31.29	37.54	38.93	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/20/2018	0.50	40.2	40.1		36.96	37.36	39.19	36.23	38.67	38.26	38.09	38.52	38.38	31.31	38.42	39.27	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/21/2018	0.00	40.2	40.1		36.91	37.38	39.11	36.17	38.52	38.21	37.9	38.34	38.35	31.3	37.59	39.13	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/22/2018	0.00	40.2	40.1		36.88	37.43	39.1	36.16	38.48	38.2	37.86	38.33	38.34	31.3	37.72	38.99	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/23/2018	0.00	40.1	40		36.84	37.36	39.08	36.14	38.44	38.19	37.84	38.33	38.33	31.29	37.43	38.89	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/24/2018	0.00	40.1	40		36.86	37.35	39.08	36.14	38.44	38.17	37.84	38.32	38.32	31.28	36.62	38.85	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/25/2018	0.00	40.1	40		36.88	37.35	39.08	36.14	38.44	38.16	37.78	38.3	38.29	31.28	37.27	38.79	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/26/2018	0.25	40.1	40.1		36.89	37.35	39.08	36.14	38.45	38.16	37.79	38.33	38.28	31.27	37.12	38.77	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/27/2018	0.00	40.1	40.2		36.88	37.38	39.07	36.14	38.44	38.14	37.75	38.29	38.28	31.27	37.69	38.74	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/28/2018	0.00	40.1	40.2		36.84	37.37	39.04	36.11	38.38	38.11	37.67	38.25	38.26	31.26	37.9	38.69	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/29/2018	0.00	40.1	40.2		36.82	37.36	39.03	36.11	38.36	38.09	37.62	38.24	38.23	31.24	37.7	38.65	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/30/2018	0.00	40.1	40.2		36.85	37.25	39.02	36.12	38.37	38.07	37.61	38.27	38.21	31.24	36.98	38.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/1/2018	0.00	40.1	40.2		36.85	37.26	39.04	36.13	38.42	38.08	37.66	38.33	38.2	31.24	37.33	38.61	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/2/2018	0.00	40.1	40.2		36.85	37.34	39.02	36.12	38.39	38.06	37.6	38.26	38.18	31.24	36.51	38.58	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/3/2018	0.20	40.1	40.1		36.82	37.3	39	36.11	38.36	38.04	37.56	38.24	38.17	31.23	36.73	38.55	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/4/2018	0.00	40.1	40.1		36.89	37.32	39.04	36.13	38.46	38.05	37.56	38.26	38.17	31.25	37.5	38.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/5/2018	0.00	40	40.1		36.83	37.28	38.99	36.1	38.34	38.02	37.5	38.19	38.15	31.24	37.75	38.52	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/6/2018	0.00	40	40.1		36.81	37.27	38.98	36.09	38.31	38	37.47	38.19	38.13	31.22	37.47	38.47	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/7/2018	0.00	40	40.1		36.82	37.28	38.97	36.1	38.31	37.99	37.46	38.2	38.11	31.22	37.02	38.44	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/8/2018	0.00	40	40.1		36.82	37.34	38.98	36.11	38.33	37.98	37.46	38.21	38.1	31.22	36.89	38.41	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/9/2018	0.75	40	40.1		37.11	37.39	39.35	36.32	38.99	38.38	38.22	38.74	38.17	31.27	38.38	38.83	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/10/2018	0.00	40.1	40.1		37.01	37.41	39.1	36.21	38.68	38.11	37.8	38.29	38.17	31.32	38.61	39.26	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/11/2018	0.00	40.1	40.1		36.94	37.37	39.08	36.19	38.54	38.09	37.68	38.25	38.15	31.32	38.56	39.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/12/2018	0.00	40.1	40.2		36.91	37.4	39.06	36.17	38.47	38.07	37.62	38.24	38.13	31.31	37.6	39.08	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/13/2018	0.00	40	40.1		36.87	37.3	39.05	36.16	38.43	38.05	37.59	38.26	38.11	31.31	37.42	38.99	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/14/2018	1.30	40	40.2		36.88	37.4	39.06	36.17	38.43	38.05	37.59	38.29	38.1	31.31	37.31	38.94	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/15/2018	0.00	40	40.2		37.11	37.48	39.24	36.3	38.94	38.27	38.24	38.49	38.22	31.45	38.32	40.08	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/16/2018																													

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
1/1/2019	0.00	40.7	41.3		37	37.48	39.26	36.24	38.6	38.41	38.01	38.37	38.36	31.42	37.62	40.3	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/2/2019	0.00	40.7	41.3		37.01	37.47	39.25	36.25	38.61	38.4	37.99	38.38	38.35	31.41	37.72	40.25	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/3/2019	0.00	40.7	41.2		37.01	37.33	39.25	36.25	38.61	38.39	37.98	38.39	38.34	31.4	37.84	40.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/4/2019	0.00	40.7	41.3		37	37.44	39.25	36.25	38.62	38.38	37.98	38.38	38.34	31.4	37.51	40.16	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/5/2019	0.00	40.7	41.3		37.06	37.48	39.28	36.27	38.74	38.41	38.05	38.41	38.36	31.43	38.23	40.32	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/6/2019	0.00	40.7	41.3		37.03	37.51	39.26	36.25	38.65	38.39	37.95	38.36	38.35	31.42	38.03	40.16	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/7/2019	0.00	40.8	41.2		37	37.43	39.25	36.25	38.62	38.37	37.92	38.37	38.34	31.41	38.06	40.08	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/8/2019	0.00	40.8	41.2		37	37.48	39.25	36.25	38.61	38.36	37.91	38.37	38.33	31.41	37.57	40.03	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/9/2019	0.00	40.8	41.2		36.99	37.37	39.25	36.24	38.62	38.36	37.91	38.36	38.33	31.4	37.71	39.98	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/10/2019	0.00	40.8	41.2		36.98	37.38	39.23	36.22	38.58	38.34	37.84	38.32	38.32	31.39	38.21	39.89	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/11/2019	0.00	40.8	41.2		36.96	37.4	39.22	36.21	38.56	38.31	37.81	38.31	38.3	31.38	38	39.81	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/12/2019	0.00	40.8	41.2		36.94	37.42	39.21	36.21	38.55	38.3	37.79	38.3	38.29	31.37	37.69	39.75	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/13/2019	0.00	40.8	41.2		36.95	37.34	39.21	36.21	38.57	38.29	37.79	38.32	38.28	31.36	37.14	39.71	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/14/2019	0.00	40.8	41		36.95	37.41	39.19	36.2	38.54	38.28	37.74	38.3	38.3	31.36	38.08	39.66	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/15/2019	0.00	40.8	41		36.95	37.35	39.19	36.2	38.55	38.26	37.72	38.28	38.3	31.35	38.43	39.6	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/16/2019	0.00	40.8	41		36.93	37.34	39.18	36.19	38.54	38.25	37.68	38.28	38.34	31.34	37.99	39.54	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/17/2019	0.00	40.8	41		36.91	37.35	39.17	36.19	38.52	38.23	37.67	38.27	38.29	31.34	37.42	39.48	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/18/2019	0.00	40.8	40.8		36.89	37.32	39.16	36.17	38.5	38.22	37.67	38.26	38.35	31.33	36.95	39.41	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/19/2019	0.00	40.8	40.8		36.88	37.3	39.16	36.17	38.5	38.21	37.66	38.27	38.29	31.32	37.09	39.36	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/20/2019	0.25	40.7	40.8		36.99	37.34	39.19	36.2	38.66	38.22	37.7	38.27	38.25	31.34	37.83	39.66	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/21/2019	0.00	40.7	40.7		36.95	37.23	39.17	36.18	38.55	38.19	37.57	38.2	38.22	31.33	38.16	39.37	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/22/2019	0.00	40.7	40.7		36.9	37.34	39.16	36.16	38.5	38.18	37.55	38.22	38.25	31.33	37.78	39.26	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/23/2019	0.00	40.4	40.7		36.9	37.41	39.17	36.18	38.52	38.19	37.62	38.3	38.27	31.32	37.35	39.22	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/24/2019	1.00	40.8	40.8		37.15	37.43	39.33	36.31	38.94	38.36	38.23	38.5	38.28	31.42	37.89	40.47	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/25/2019	0.00	40.8	40.8		37.06	37.45	39.27	36.25	38.77	38.3	37.93	38.29	38.25	31.43	38.2	40.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/26/2019	0.00	40.8	40.8		37	37.43	39.25	36.23	38.67	38.28	37.84	38.26	38.25	31.42	38.19	39.99	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/27/2019	2.55	40.7	40.7		37.27	37.58	39.46	36.41	39.06	38.56	38.59	38.78	38.33	31.49	38.86	40.59	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/28/2019	0.00	40.8	40.8		37.24	37.76	39.46	36.37	39.05	38.57	38.64	38.5	38.43	31.69	38.67	40.68	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/29/2019	0.00	40.8	40.8		37.16	37.65	39.41	36.33	38.9	38.53	38.45	38.42	38.42	31.65	37.66	40.63	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/30/2019	0.00	40.8	40.8		37.12	37.65	39.37	36.31	38.8	38.5	38.3	38.37	38.42	31.6	38.79	40.6	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/31/2019	0.00	40.8	40.8		37.08	37.57	39.34	36.3	38.73	38.49	38.23	38.38	38.4	31.57	38.65	40.58	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/1/2019	0.00	40.8	40.8		37.04	37.54	39.32	36.29	38.7	38.47	38.18	38.38	38.39	31.54	37.91	40.57	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/2/2019	0.00	40.8	40.8		37.03	37.54	39.31	36.28	38.67	38.46	38.16	38.39	38.41	31.52	37.87	40.55	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/3/2019	0.00	40.7	40.7		37.03	37.61	39.31	36.28	38.69	38.46	38.15	38.4	38.39	31.5	38.09	40.55	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/4/2019	0.00	40.7	40.7		37.02	37.54	39.3	36.28	38.67	38.45	38.1	38.37	38.37	31.48	38.33	40.54	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/5/2019	0.00	40.7	40.7		36.99	37.5	39.28	36.25	38.62	38.43	38.04	38.33	38.45	31.47	37.57	40.5	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/6/2019	0.00	40.7	40.7		36.96	37.44	39.26	36.23	38.59	38.42	37.99	38.32	38.45	31.45	37.47	40.47	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/7/2019	0.00	40.7	40.7		36.94	37.48	39.25	36.22	38.56	38.4	37.95	38.3	38.5	31.44	37.37	40.42	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/8/2019	0.00	40.6	40.7		36.92	37.37	39.24	36.21	38.54	38.39	37.92	38.29	38.45	31.42	37.54	40.38	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/9/2019	0.00	40.6	40.6		36.94	37.37	39.24	36.2	38.54	38.38	37.89	38.29	38.43	31.41	38.35	40.32	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/10/2019	0.75	40.6	40.6		36.96	37.36	39.24	36.22	38.59	38.39	37.94	38.34	38.39	31.4	38.42	40.34	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/11/2019	0.00	40.6	40.6		37.09	37.51	39.31	36.27	38.83	38.46	38.27	38.43	38.68	31.46	37.71	40.61	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/12/2019	0.00	40.6	40.6		37.01</																								

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
3/6/2019	0.00	40.2	40.2		36.87	37.32	39.13	36.09	38.32	38.18	37.45	38.13	38.11	31.3	38.59	39.59	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/7/2019	0.00	40.2	40.2		36.83	37.28	39.11	36.08	38.3	38.16	37.43	38.12	38.08	31.29	37.96	39.5	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/8/2019	0.00	40.2	40.1		36.81	37.3	39.09	36.08	38.28	38.15	37.42	38.12	38.06	31.28	37.35	39.42	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/9/2019	0.00	40.1	40.1		36.78	37.29	39.08	36.06	38.25	38.13	37.4	38.09	38.05	31.27	37.12	39.35	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/10/2019	0.00	40.2	40.1		36.77	37.29	39.06	36.06	38.23	38.1	37.36	38.06	38.03	31.26	36.96	39.27	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/11/2019	0.00	40.1	40.1		36.75	37.26	39.05	36.04	38.21	38.09	37.33	38.06	38.01	31.26	37.09	39.2	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/12/2019	0.00	40.1	40.1		36.8	37.25	39.05	36.05	38.21	38.07	37.3	38.01	37.99	31.25	37.9	39.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/13/2019	0.00	40.1	40.1		36.73	37.25	39.02	36.03	38.18	38.05	37.26	38	37.98	31.23	37.41	39.07	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/14/2019	0.00	40.1	40.1		36.72	37.24	39	36.02	38.15	38.03	37.24	37.99	37.96	31.22	37.18	39	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/15/2019	0.00	40.1	40.1		36.7	37.23	38.99	36.02	38.14	38.01	37.21	37.97	37.93	31.21	36.84	38.94	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/16/2019	0.00	40.1	40.1		36.7	37.22	38.97	36.01	38.12	37.99	37.18	37.97	37.92	31.2	37.26	38.88	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/17/2019	0.00	40.1	39.9		36.84	37.23	39.03	36.07	38.24	38	37.19	38.09	37.91	31.2	38.14	38.85	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/18/2019	0.00	40.1	39.9		36.75	37.22	38.97	36.03	38.14	37.97	37.14	37.97	37.89	31.19	37.76	38.81	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/19/2019	1.00	39.7	39.9		36.82	37.21	39	36.08	38.22	37.97	37.15	38.06	37.88	31.19	37.96	38.78	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/20/2019	0.00	39.8	39.8		37.05	37.33	39.12	36.16	38.64	38.13	37.66	38.15	37.94	31.29	37.98	39.8	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/21/2019	0.00	39.8	39.8		36.92	37.32	39.07	36.11	38.41	38.09	37.47	38.06	37.93	31.3	37.13	39.57	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/22/2019	0.00	39.8	39.8		36.84	37.35	39.03	36.07	38.26	38.05	37.32	38	37.9	31.28	37.1	39.35	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/23/2019	0.00	39.8	39.8		36.79	37.28	39	36.04	38.17	38.01	37.22	37.96	37.88	31.27	37.33	39.16	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/24/2019	0.00	39.7	39.8		36.74	37.28	38.98	36.03	38.12	37.99	37.17	37.97	37.86	31.26	37.32	39.03	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/25/2019	0.00	39.7	39.8		36.71	37.28	38.96	36.03	38.09	37.98	37.15	37.97	37.84	31.25	36.75	38.94	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/26/2019	0.00	39.7	39.8		36.69	37.27	38.95	36.02	38.06	37.95	37.09	37.94	37.82	31.23	36.6	38.84	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/27/2019	0.50	39.7	39.8		36.77	37.28	38.96	36.04	38.08	37.95	37.05	37.96	37.8	31.23	37.76	38.79	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/28/2019	0.00	39.7	39.8		36.7	37.25	38.93	36.01	38.05	37.92	37.01	37.93	37.78	31.22	37.22	38.75	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/29/2019	0.00	39.7	39.7		36.66	37.24	38.91	36.01	38.02	37.9	36.98	37.9	37.9	31.21	36.9	38.7	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/30/2019	0.00	39.7	39.7		36.64	37.3	38.9	35.99	38	37.89	36.97	37.89	37.81	31.19	36.63	38.66	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/31/2019	0.00	39.7	39.6		36.62	37.22	38.87	35.99	37.97	37.86	36.94	37.87	37.81	31.17	36.42	38.61	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/1/2019	0.15	39.6	39.6		36.84	37.24	39.05	36.11	38.35	37.93	36.97	38.31	37.81	31.19	37.83	38.56	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/2/2019	0.00	39.7	39.7		36.94	37.26	39	36.1	38.35	37.9	37.08	38.1	37.81	31.22	37.76	38.88	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/3/2019	0.35	39.6	39.5		36.75	37.23	38.88	36.02	38.08	37.85	36.89	37.89	37.8	31.21	37.37	38.72	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/4/2019	0.00	39.5	39.5		36.67	37.24	38.86	36	37.97	37.83	36.87	37.88	37.81	31.19	36.76	38.57	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/5/2019	0.00	39.6	39.6		36.66	37.22	38.85	36	37.96	37.82	36.87	37.89	37.78	31.18	36.77	38.53	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/6/2019	0.00	39.5	39.5		36.58	37.21	38.82	35.97	37.92	37.79	36.82	37.86	37.75	31.16	36.24	38.46	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/7/2019	0.00	39.5	39.5		36.6	37.2	38.81	35.97	37.9	37.78	36.8	37.86	37.7	31.16	36.51	38.42	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/8/2019	1.85	39.5	39.5		36.57	37.2	38.79	35.96	37.87	37.76	36.8	37.87	37.71	31.14	36.19	38.37	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/9/2019	0.35	39.6	39.6		37.13	37.51	39.22	36.25	38.85	38.23	37.97	38.47	37.95	31.46	37.34	40.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/10/2019	0.00	39.6	39.6		37.03	37.5	39.18	36.19	38.65	38.2	37.73	38.07	37.82	31.46	37.28	40.05	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/11/2019	0.00	39.6	39.6		36.98	37.48	39.15	36.15	38.46	38.17	37.56	37.98	37.9	31.43	37.53	39.91	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/12/2019	0.00	39.6	39.6		36.95	37.46	39.12	36.13	38.35	38.15	37.46	38.02	37.87	31.41	37.15	39.74	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/13/2019	0.00	39.6	39.6		36.86	37.44	39.11	36.11	38.25	38.13	37.39	37.92	37.84	31.39	37.08	39.61	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/14/2019	0.25	39.6	39.6		36.85	37.42	39.1	36.09	38.18	38.11	37.33	37.93	37.81	31.37	37.36	39.51	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/15/2019	0.00	39.6	39.6		36.85	37.4	39.08	36.08	38.12	38.09	37.24	37.9	37.84	31.36	37.51	39.41	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/16/2019	0.00	39.5	39.5		36.78	37.38	39.05	36.04	38.03	38.06	37.15	37.84	37.71	31.32	37.49	39.24	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/																													

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
5/9/2019	0.00	39.3	39.3		36.82	37.33	38.87	35.99	37.88	37.97	36.9	37.42	37.43	31.22	37.1	39.12	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/10/2019	0.00	39.3	39.3		36.77	37.31	38.83	35.96	37.8	37.94	36.81	37.34	37.41	31.2	36.84	38.98	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/11/2019	0.00	39.2	39.2		36.73	37.29	38.8	35.96	37.73	37.92	36.76	37.29	37.4	31.18	36.52	38.86	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/12/2019	0.00	39.1	39.1		36.7	37.27	38.76	35.94	37.67	37.89	36.69	37.26	37.45	31.15	36.67	38.76	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/13/2019	0.00	39.1	39.1		37	37.26	38.99	36.06	38.06	37.96	36.65	37.83	37.4	31.19	38.02	38.76	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/14/2019	0.00	39.1	39.1		36.93	37.31	38.89	36.04	37.96	37.92	36.73	37.41	37.35	31.19	37.64	38.96	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/15/2019	0.00	39.3	39.3		36.79	37.29	38.8	35.98	37.77	37.87	36.62	37.26	37.33	31.17	37.28	38.78	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/16/2019	0.00	39.2	39.2		36.71	37.27	38.74	35.95	37.64	37.84	36.54	37.2	37.3	31.15	36.89	38.64	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/17/2019	0.00	39.1	39.1		36.64	37.25	38.69	35.92	37.58	37.81	36.49	37.15	37.27	31.12	36.5	38.55	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/18/2019	0.00	39.1	39.1		36.61	37.23	38.65	35.9	37.53	37.78	36.45	37.11	37.24	31.09	36.66	38.47	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/19/2019	0.00	39	39		36.59	37.21	38.61	35.89	37.49	37.75	36.4	37.08	37.21	31.06	36.38	38.38	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/20/2019	0.00	39	39		36.56	37.2	38.58	35.87	37.46	37.72	36.34	37.04	37.18	31.03	36.35	38.29	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/21/2019	0.00	39	39		36.52	37.18	38.55	35.86	37.43	37.69	36.31	37.02	37.15	30.99	36.2	38.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/22/2019	0.00	39	39		36.49	37.16	38.51	35.84	37.39	37.65	36.23	36.97	37.12	30.94	36.47	38.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/23/2019	0.00	39	39		36.46	37.14	38.47	35.82	37.36	37.61	36.16	36.94	37.09	30.9	36.56	38.02	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/24/2019	0.00	39	39		36.43	37.12	38.44	35.81	37.33	37.58	36.11	36.92	37.05	30.85	36.4	37.95	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/25/2019	0.00	38.8	38.8		36.39	37.1	38.4	35.8	37.3	37.55	36.06	36.89	37.02	30.79	36.08	37.89	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/26/2019	0.00	38.8	38.8		36.37	37.08	38.37	35.79	37.27	37.52	36.01	36.86	36.98	30.73	35.86	37.82	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/27/2019	0.00	38.8	38.8		36.31	37.06	38.33	35.77	37.24	37.48	35.97	36.84	36.95	30.66	35.66	37.76	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/28/2019	0.00	38.8	38.8		36.27	37.04	38.29	35.75	37.21	37.45	35.89	36.8	36.92	30.57	35.55	37.69	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/29/2019	0.00	38.8	38.8		36.22	37.03	38.25	35.73	37.18	37.41	35.81	36.77	36.89	30.47	35.65	37.63	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/30/2019	0.00	38.7	38.7		36.23	37	38.22	35.73	37.15	37.37	35.74	36.74	36.85	30.33	35.61	37.56	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/31/2019	1.00	38.7	38.7		36.16	36.98	38.18	35.71	37.11	37.33	35.7	36.71	36.81	30.19	35.51	37.5	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/1/2019	0.00	38.6	38.6		36.19	36.97	38.19	35.74	37.12	37.3	35.69	36.7	36.78	30.42	35.38	37.45	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/2/2019	0.00	38.5	38.6		36.15	36.96	38.16	35.73	37.11	37.27	35.64	36.68	36.76	30.26	35.32	37.4	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/3/2019	4.00	38.5	38.5		36.19	36.96	38.21	35.75	37.22	37.24	35.6	36.68	36.75	30.13	35.57	37.36	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/4/2019	0.00	38.5	38.5		36.34	36.98	38.35	35.8	37.24	37.27	35.61	36.66	36.8	30.56	35.82	37.34	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/5/2019	0.00	38.5	38.5		36.19	36.96	38.17	35.76	37.1	37.23	35.59	36.64	36.74	30.29	35.7	37.31	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/6/2019	0.00	38.5	38.5		36.13	36.95	38.12	35.74	37.07	37.2	35.59	36.61	36.7	30.11	35.32	37.28	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/7/2019	2.00	38.5	38.5		36.42	36.98	38.4	35.84	37.34	37.29	35.78	36.73	36.75	30.42	35.75	37.46	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/8/2019	0.00	38.5	38.5		36.74	37.03	38.6	35.94	37.49	37.36	35.78	36.75	36.75	30.59	36.3	37.45	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/9/2019	2.00	38.5	38.5		36.5	37.02	38.39	35.84	37.45	37.78	35.77	36.89	36.77	30.3	36.55	37.4	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/10/2019	0.00	38.7	38.8		37.14	37.41	38.98	36.17	38.47	37.97	37.49	37.54	37.05	31.09	37.59	39.26	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/11/2019	0.70	38.7	38.8		36.99	37.38	38.87	36.07	38.15	37.9	37.22	37.33	37.02	31.11	36.86	39.12	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/12/2019	0.20	38.8	38.9		37.07	37.43	38.91	36.1	38.21	37.95	37.22	37.41	37.04	31.2	37.1	39.36	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/13/2019	0.25	38.8	38.9		37.03	37.42	38.93	36.11	38.19	37.95	37.09	37.37	37.05	31.22	37.46	39.41	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/14/2019	0.00	38.8	38.9		37	37.43	38.88	36.06	38.05	37.94	37.05	37.27	37.03	31.24	37.35	39.41	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/15/2019	0.00	38.8	38.9		36.93	37.4	38.83	36.02	37.88	37.91	36.92	37.17	37.02	31.22	36.92	39.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/16/2019	0.00	38.5	38.8		36.89	37.38	38.92	35.99	38.29	38.15	37.01	37.15	37	31.21	37.92	39.34	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/17/2019	0.00	38.8	38.9		36.86	37.37	38.82	35.99	37.9	37.94	37.04	37.08	36.98	31.2	37.07	39.38	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/18/2019	0.00	38.8	38.9		36.81	37.35	38.78	35.97	37.73	37.9	36.84	37.03	36.97	31.18	36.61	39.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/19/2019	1.50	38.8	38.9		36.84	37.35	38.81	35.98	37.72	37.91	36.81	37.02	36.97	31.18	36.86	39.31	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/20/2019	0.00	39	39		37.15	37																							

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
7/1/2019	0.00	39	39.1		37.16	37.54	39.11	36.21	38.46	38.2	37.37	37.57	37.12	31.39	37.73	40.33	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/2/2019	0.00	39	39.1		37.03	37.5	39.05	36.12	38.11	38.15	37.13	37.35	37.17	31.36	37.23	39.98	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/3/2019	0.00	39	39		36.97	37.47	39.01	36.08	37.91	38.11	36.96	37.23	37.06	31.34	37.23	40	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/4/2019	0.00	38.9	39		36.91	37.44	38.97	36.05	37.77	38.08	36.81	37.14	37.02	31.31	37.24	39.75	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/5/2019	1.75	38.9	39		36.86	37.41	38.94	36.03	37.69	38.05	36.71	37.18	37	31.28	37.37	39.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/6/2019	0.00	39	39		37.12	37.53	39.16	36.2	38.57	38.28	37.5	37.73	37.2	31.4	38.01	40.77	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/7/2019	1.75	39	39.1		37.14	37.56	39.19	36.21	38.65	38.32	37.67	37.81	37.28	31.43	37.99	40.8	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/8/2019	2.00	39.1	39.2		37.16	37.6	39.23	36.21	38.49	38.36	37.62	38.35	37.34	31.45	38.05	40.8	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/9/2019	0.00	39.1	39.3		37.19	37.63	39.27	36.24	38.65	38.4	37.75	37.81	37.43	31.48	37.93	40.91	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/10/2019	0.00	39.1	39.3		37.13	37.6	39.24	36.21	38.37	38.38	37.52	37.68	37.45	31.45	37.96	40.9	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/11/2019	0.00	39.2	39.4		37.16	37.61	39.26	36.23	38.45	38.4	37.58	37.77	37.4	31.48	37.96	40.95	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/12/2019	0.00	39.2	39.3		37.11	37.59	39.24	36.2	38.22	38.38	37.41	37.63	37.43	31.45	37.84	40.92	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/13/2019	0.00	39.2	39.3		37.23	37.66	39.33	36.28	38.69	38.49	37.87	37.9	37.52	31.51	38.59	41.05	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/14/2019	0.00	39.3	39.8		37.15	37.62	39.29	36.24	38.37	38.45	37.59	37.69	37.45	31.47	37.99	41.02	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/15/2019	0.00	39.3	39.8		37.09	37.57	39.26	36.19	38.13	38.41	37.39	37.55	37.43	31.43	37.84	40.99	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/16/2019	0.00	39.3	39.9		37.04	37.53	39.23	36.17	38.03	38.38	37.25	37.55	37.49	31.39	37.94	40.95	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/17/2019	0.00	39.3	39.8		36.99	37.49	39.19	36.14	37.98	38.35	37.16	37.45	37.67	31.36	37.83	40.9	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/18/2019	0.00	39.3	39.7		36.96	37.46	39.16	36.12	37.92	38.33	37.09	37.41	37.36	31.34	37.83	40.85	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/19/2019	0.00	39.4	39.8		36.94	37.44	39.14	36.12	37.93	38.31	37.05	37.44	37.36	31.33	37.82	40.81	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/20/2019	0.00	39.4	39.8		36.91	37.42	39.12	36.1	37.84	38.29	36.99	37.35	37.33	31.31	37.95	40.74	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/21/2019	0.00	39.4	39.8		36.87	37.39	39.09	36.08	37.78	38.25	36.92	37.32	37.46	31.29	37.81	40.66	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/22/2019	0.00	39.4	39.8		36.88	37.38	39.08	36.08	37.82	38.24	36.9	37.31	37.44	31.28	37.62	40.61	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/23/2019	0.00	39.3	39.7		36.87	37.36	39.07	36.09	37.76	38.24	36.91	37.28	37.27	31.27	37.55	40.52	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/24/2019	0.00	39.3	39.7		36.86	37.34	39.06	36.07	37.7	38.22	36.85	37.25	37.32	31.26	38.12	40.4	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/25/2019	0.55	39.3	39.7		37.19	37.42	39.25	36.28	37.72	38.36	37.2	37.97	37.35	31.32	38.88	40.8	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/26/2019	0.00	39.3	39.7		37	37.38	39.12	36.15	38.13	38.27	37.02	37.51	37.29	31.31	37.92	40.59	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/27/2019	0.00	39.3	39.7		36.96	37.38	39.1	36.12	37.97	38.25	36.95	37.41	37.29	31.31	37.86	40.49	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/28/2019	0.00	39.4	39.8		36.94	37.38	39.09	36.12	38.03	38.24	36.93	37.46	37.27	31.32	37.76	40.49	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/29/2019	0.00	39.4	39.8		36.89	37.36	39.07	36.09	37.85	38.21	36.85	37.36	37.25	31.29	37.69	40.32	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/30/2019	0.00	39.4	39.8		36.85	37.35	39.16	36.07	37.75	38.33	36.91	37.26	37.47	31.27	38.85	40.74	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/31/2019	0.00	39.4	39.8		36.84	37.35	39.05	36.07	37.82	38.23	36.87	37.28	37.48	31.27	37.58	40.55	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/1/2019	0.00	39.4	39.8		36.88	37.34	39.04	36.07	37.73	38.21	36.78	37.24	37.49	31.26	37.99	40.45	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/2/2019	0.75	39.4	39.8		37.01	37.35	39.14	36.15	37.7	38.24	36.83	37.24	37.57	31.28	38.45	40.67	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/3/2019	0.00	39.4	39.8		36.91	37.34	39.04	36.09	37.82	38.21	36.84	37.27	37.52	31.27	37.88	40.47	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/4/2019	0.05	39.4	39.8		36.81	37.32	38.99	36.05	37.7	38.17	36.73	37.19	37.51	31.26	37.32	40.27	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/5/2019	0.00	39.7	39.9		37.01	37.31	39.13	36.12	37.64	38.21	36.71	37.16	37.63	31.28	38.59	40.76	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/6/2019	2.50	39.4	39.8		36.83	37.32	38.97	36.05	37.73	38.15	36.68	38.1	37.71	31.25	37.51	40.48	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/7/2019	0.25	39.4	39.8		37.17	37.55	39.23	36.27	38.56	38.36	37.4	38.31	37.7	31.55	37.93	40.72	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/8/2019	0.00	39.6	39.8		37.09	37.53	39.2	36.23	38.31	38.32	37.21	38.24	37.78	31.5	37.64	40.61	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/9/2019	0.25	39.6	40.3		37.05	37.52	39.17	36.22	38.19	38.3	37.08	38.23	37.69	31.49	37.44	40.42	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/10/2019	0.00	39.6	40.3		37.09	37.54	39.2	36.24	38.32	38.31	37.08	38.14	37.78	31.47	37.73	40.51	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/11/2019	1.00	39.6	40.4		37.04	37.5	39.18	36.21	38.21	38.29	37.02	38.06	37.7	31.44	37.88	40.82	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/12/2019	0.00	39.6	40.4</																										

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
9/2/2019	0.00	39.9	40.6		37.22	36.7	39.38	36.32	38.35	38.55	38.03	38.11	38.1	31.48	38.68	41.08	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/3/2019	2.15	39.9	40.6		37.18	36.64	39.4	36.35	38.42	38.57	38.03	37.94	38.12	31.47	38.68	41.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/4/2019	0.00	40	41.8		37.32	36.68	39.47	36.38	38.84	38.65	38.41	38.59	38.24	31.59	38.8	41.2	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/5/2019	0.00	40	41.8		37.22	36.61	39.42	36.33	38.76	38.59	38.03	37.99	38.25	31.61	38.73	41.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/6/2019	0.00	40	40.8		37.17	36.57	39.37	36.3	38.51	38.55	37.8	37.89	38.24	31.56	38.67	41.09	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/7/2019	0.00	40	40.8		37.12	36.55	39.34	36.28	38.35	38.51	37.66	37.84	38.21	31.51	38.6	41.06	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/8/2019	0.00	40	40.7		37.08	36.52	39.31	36.26	38.25	38.48	37.54	37.81	38.2	31.47	38.52	41.02	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/9/2019	0.00	39.9	40.7		37.04	36.5	39.28	36.24	38.19	38.46	37.45	37.77	38.26	31.43	38.48	40.99	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/10/2019	0.00	39.9	40.6		37.02	36.48	39.26	36.22	38.14	38.43	37.38	37.78	38.16	31.4	38.43	40.95	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/11/2019	0.00	39.9	40.6		37	36.46	39.24	36.2	38.11	38.41	37.32	37.77	38.13	31.38	38.4	40.9	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/12/2019	0.00	39.9	40.6		36.99	36.43	39.22	36.19	38.09	38.38	37.26	37.74	38.12	31.36	38.39	40.85	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/13/2019	0.50	39.9	40.5		37	36.42	39.21	36.2	38.05	38.36	37.22	37.88	38.15	31.35	38.35	40.79	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/14/2019	0.00	39.9	40.5		36.97	36.42	39.19	36.17	38.07	38.34	37.18	37.74	38.21	31.34	38.64	40.92	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/15/2019	0.70	40	40.5		37.25	36.57	39.37	36.32	38.78	38.51	37.88	38.13	38.3	31.5	38.72	41.08	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/16/2019	0.00	40	40.7		37.16	36.57	39.33	36.29	38.56	38.47	37.65	38.02	38.21	31.5	38.56	41.03	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/17/2019	0.00	40	40.6		37.1	36.56	39.29	36.26	38.36	38.44	37.47	37.94	38.19	31.47	38.48	40.99	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/18/2019	0.80	40	40.7		37.07	36.55	39.28	36.25	38.24	38.42	37.38	37.94	38.25	31.44	38.84	41.15	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/19/2019	0.25	40	40.7		37.14	36.6	39.32	36.29	38.61	38.48	37.68	38.04	38.27	31.48	38.61	41.06	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/20/2019	0.00	40	40.7		37.12	36.6	39.33	36.28	38.48	38.47	37.59	37.96	38.24	31.47	38.6	41.06	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/21/2019	0.00	40	40.7		37.07	36.58	39.29	36.24	38.31	38.44	37.46	37.9	38.27	31.44	38.54	41.03	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/22/2019	0.00	39.9	40.6		37.04	36.56	39.26	36.22	38.22	38.41	37.37	37.92	38.2	31.41	38.49	40.99	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/23/2019	0.00	39.9	40.6		37.02	36.55	39.24	36.2	38.17	38.39	37.3	37.85	38.17	31.39	38.46	40.95	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/24/2019	0.00	39.9	40.6		37	36.53	39.22	36.18	38.13	38.36	37.26	37.88	38.15	31.36	38.42	40.9	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/25/2019	0.00	39.9	40.6		36.96	36.51	39.19	36.15	38.07	38.33	37.17	37.86	38.13	31.34	38.38	40.84	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/26/2019	0.00	39.8	40.5		36.95	36.5	39.16	36.13	38.03	38.31	37.13	37.89	38.11	31.32	38.34	40.75	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/27/2019	0.00	39.7	40.5		36.94	36.48	39.14	36.12	37.99	38.28	37.08	37.88	38.09	31.3	38.31	40.65	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/28/2019	0.00	39.7	40.5		37.06	36.5	39.23	36.19	37.97	38.33	37.21	38.18	38.19	31.3	38.42	40.65	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/29/2019	0.00	39.7	40.5		36.94	36.48	39.13	36.12	38.1	38.28	37.07	37.88	38.12	31.29	38.33	40.51	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/30/2019	0.00	39.6	40.4		36.94	36.48	39.12	36.11	38.04	38.27	37.03	37.87	38.06	31.28	38.29	40.42	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/1/2019	0.00	39.55	40.4		36.9	36.48	39.1	36.09	38.02	38.26	37.02	37.86	38.04	31.27	38.2	40.31	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/2/2019	0.00	39.5	40.3		36.87	36.47	39.08	36.07	37.98	38.23	36.98	37.77	38.02	31.26	38.15	40.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/3/2019	0.00	39.5	40.3		36.87	36.46	39.05	36.06	37.95	38.21	36.94	37.74	37.99	31.24	38.09	40.09	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/4/2019	0.00	39.5	40.2		36.86	36.46	39.03	36.05	37.93	38.19	36.93	37.79	37.97	31.22	38.06	40	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/5/2019	0.00	39.5	40.2		36.87	36.46	39.01	36.04	37.92	38.17	36.89	37.78	37.95	31.22	38	39.92	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/6/2019	0.00	39.4	40.2		36.98	36.48	39.05	36.09	38.21	38.19	36.95	37.92	37.96	31.24	38.08	39.92	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/7/2019	1.50	39.5	40.2		37.19	36.6	39.22	36.25	38.65	38.36	37.5	38.26	38.03	31.32	38.64	40.89	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/8/2019	1.50	39.4	40.2		37.38	36.77	39.44	36.4	38.66	38.64	38.37	38.75	38.17	31.43	38.76	41.06	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/9/2019	5.05	39.5	40.6		37.55	37.07	39.58	36.57	38.86	38.83	38.73	38.74	38.48	31.89	39.01	41.33	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/10/2019	0.00	39.9	40.9		37.44	37.15	39.48	36.44	39.07	38.76	38.64	38.32	38.59	31.93	39.13	41.25	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/11/2019	0.00	39.8	40.9		37.36	37.08	39.4	36.38	38.82	38.69	38.45	38.16	38.6	31.76	39.07	41.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/12/2019	0.00	39.8	40.9		37.28	37.01	39.37	36.35	38.66	38.64	38.28	38.21	38.6	31.65	38.98	41.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/13/2019	0.00	39.8	40.9		37.21	36.95	39.34	36.32	38.55	38.61	38.15	38.13	38.58	31.58	38.9	41.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/14/2019	0.00	39.8	41																										

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL	SHWL
11/4/2019	0.00	40.4	40.9		37.02	36.63	39.21	36.24	38.7	38.47	38.48	38.5	39.18	31.36	38.58	40.87	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/5/2019	0.50	40.4	40.8		37.05	36.62	39.24	36.27	38.71	38.47	38.47	38.5	39.18	31.36	38.57	40.84	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/6/2019	0.00	40.4	40.9		37.12	36.62	39.26	36.28	38.79	38.49	38.52	38.52	39.2	31.38	38.62	40.95	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/7/2019	0.00	40.4	40.9		37.07	36.6	39.24	36.27	38.75	38.48	38.49	38.51	39.19	31.37	38.57	40.91	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/8/2019	0.50	40.4	40.9		37.08	36.61	39.25	36.27	38.74	38.47	38.46	38.5	39.27	31.36	38.6	40.9	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/9/2019	0.00	40.4	40.9		37.19	36.68	39.31	36.32	38.88	38.53	38.59	38.54	39.27	31.4	38.67	40.99	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/10/2019	0.00	40.5	40.7		37.1	36.7	39.27	36.28	38.78	38.49	38.5	38.5	39.26	31.4	38.6	40.94	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/11/2019	0.00	40.5	40.7		37.05	36.68	39.24	36.26	38.74	38.47	38.46	38.48	39.26	31.38	38.58	40.9	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/12/2019	0.00	40.5	40.7		37.04	36.68	39.24	36.26	38.73	38.46	38.44	38.48	39.24	31.37	38.55	40.86	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/13/2019	0.00	40.45	40.6		37.03	36.66	39.23	36.24	38.7	38.44	38.4	38.44	39.24	31.36	38.56	40.84	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/14/2019	0.00	40.4	40.6		37.02	36.68	39.22	36.24	38.7	38.43	38.37	38.44	39.22	31.34	38.55	40.84	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/15/2019	1.00	40.4	40.6		37.18	36.74	39.35	36.34	38.89	38.53	38.58	38.67	39.37	31.39	38.7	40.93	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/16/2019	0.00	40.4	40.6		37.12	36.73	39.3	36.3	38.79	38.49	38.48	38.47	39.25	31.39	38.63	40.89	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/17/2019	0.00	40.4	40.6		37.09	36.74	39.28	36.29	38.74	38.47	38.44	38.44	39.24	31.38	38.6	40.86	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/18/2019	0.00	40.4	40.4		37.06	36.7	39.26	36.28	38.72	38.45	38.39	38.43	39.22	31.37	38.55	40.82	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/19/2019	0.00	40.4	40.4		37.02	36.69	39.24	36.24	38.68	38.42	38.32	38.4	39.21	31.35	38.5	40.79	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/20/2019	0.00	40.3	40.4		36.97	36.63	39.21	36.21	38.65	38.4	38.27	38.37	39.2	31.34	38.48	40.73	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/21/2019	0.00	40.4	40.4		36.96	36.67	39.2	36.21	38.64	38.38	38.25	38.37	39.2	31.32	38.47	40.66	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/22/2019	0.00	40.4	40.4		36.97	36.66	39.19	36.21	38.64	38.37	38.23	38.36	39.19	31.31	38.45	40.6	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/23/2019	0.00	40.4	40.4		36.95	36.66	39.18	36.19	38.63	38.36	38.21	38.35	39.19	31.31	38.43	40.53	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/24/2019	0.45	40.35	40.35		37.12	36.65	39.29	36.29	38.84	38.44	38.42	38.44	39.23	31.35	38.62	40.84	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/25/2019	0.00	40.35	40.3		37.04	36.72	39.25	36.24	38.72	38.41	38.3	38.36	39.21	31.34	38.53	40.69	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/26/2019	0.00	40.3	40.3		36.99	36.68	39.23	36.22	38.65	38.38	38.23	38.34	39.18	31.33	38.5	40.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/27/2019	0.00	40.25	40.3		36.96	36.65	39.21	36.21	38.63	38.36	38.17	38.34	39.08	31.33	38.47	40.49	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/28/2019	0.00	40.25	40.3		36.94	36.62	39.19	36.19	38.61	38.35	38.14	38.32	38.9	31.32	38.44	40.41	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/29/2019	0.00	40.25	40.3		36.92	36.63	39.18	36.17	38.58	38.34	38.11	38.3	38.93	31.3	38.42	40.34	31.82	37.05	37.05	38.8									

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
1/1/2020	0.00	40.45	40.45		36.97	36.79	39.33	36.29	38.68	38.52	38.33	38.33	38.55	31.49	38.63	40.92	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/2/2020	0.00	40.5	40.5		36.95	36.68	39.31	36.28	38.66	38.5	38.29	38.33	38.55	31.47	38.6	40.89	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/3/2020	0.00	40.4	40.4		36.95	36.72	39.31	36.28	38.67	38.49	38.28	38.34	38.54	31.45	38.59	40.89	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/4/2020	0.00	40.4	40.4		36.95	36.73	39.39	36.36	38.66	38.54	38.45	38.34	38.55	31.44	38.71	40.9	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/5/2020	0.05	40.35	40.35		36.99	36.72	39.31	36.28	38.7	38.49	38.26	38.3	38.55	31.45	38.59	40.89	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/6/2020	0.00	40.3	40.35		36.95	36.69	39.29	36.26	38.65	38.47	38.21	38.29	38.54	31.43	38.56	40.85	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/7/2020	0.00	40.3	40.3		36.94	36.62	39.28	36.25	38.63	38.46	38.18	38.29	38.54	31.41	38.54	40.81	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/8/2020	0.00	40.3	40.3		36.92	36.64	39.26	36.22	38.6	38.44	38.1	38.25	38.55	31.39	38.51	40.75	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/9/2020	0.00	40.25	40.25		36.9	36.73	39.25	36.21	38.58	38.42	38.08	38.25	38.54	31.38	38.5	40.73	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/10/2020	TR	40.25	40.25		36.88	36.58	39.23	36.21	38.57	38.41	38.07	38.25	38.52	31.37	38.49	40.69	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/11/2020	0.00	40.25	40.25		36.9	36.56	39.24	36.21	38.58	38.4	38.08	38.28	38.5	31.36	38.5	40.58	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/12/2020	0.00	40.25	40.25		36.94	36.6	39.23	36.2	38.58	38.39	38.05	38.26	38.47	31.35	38.48	40.56	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/13/2020	0.00	40.25	40.25		36.92	36.63	39.22	36.19	38.57	38.38	38.02	38.24	38.45	31.35	38.45	40.53	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/14/2020	0.00	40.25	40.25		36.94	36.61	39.21	36.19	38.56	38.37	38.01	38.26	38.31	31.34	38.46	40.48	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/15/2020	0.00	40.25	40.25		36.9	36.62	39.2	36.18	38.55	38.35	37.98	38.24	38.26	31.33	38.44	40.45	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/16/2020	0.00	40.2	40.3		36.93	36.53	39.19	36.17	38.54	38.34	37.95	38.21	38.22	31.32	38.41	40.38	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/17/2020	0.00	40.2	40.3		36.88	36.56	39.17	36.14	38.49	38.32	37.89	38.17	38.3	31.31	38.38	40.28	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/18/2020	0.00	40.25	40.3		37	36.52	39.16	36.14	38.48	38.31	37.88	38.17	38.18	31.3	38.37	40.2	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/19/2020	0.00	40.25	40.3		36.81	36.59	39.16	36.16	38.51	38.3	37.89	38.19	38.18	31.3	38.38	40.21	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/20/2020	0.00	40.2	40.3		36.89	36.51	39.15	36.15	38.46	38.29	37.83	38.13	38.58	31.29	38.35	40.12	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/21/2020	0.00	40.2	40.3		36.9	36.63	39.14	36.14	38.45	38.27	37.79	38.12	38.57	31.28	38.34	40.03	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/22/2020	TR	40.1	40.25		36.94	36.54	39.15	36.17	38.44	38.26	37.8	38.11	38.57	31.27	38.39	40	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/23/2020	0.00	40.1	40.25		36.95	36.6	39.15	36.19	38.51	38.25	37.79	38.15	38.62	31.28	38.37	39.94	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/24/2020	0.00	40.1	40.25		36.92	36.52	39.12	36.16	38.47	38.24	37.76	38.13	38.63	31.27	38.3	39.94	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/25/2020	0.00	40.1	40.2		37.06	36.56	39.1	36.14	38.43	38.22	37.71	38.09	38.61	31.27	38.24	39.81	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/26/2020	0.00	40	40.2		36.86	36.54	39.09	36.13	38.41	38.2	37.66	38.08	38.6	31.26	38.22	39.71	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/27/2020	0.00	40	40.1		36.87	36.5	39.08	36.14	38.43	38.19	37.66	38.1	38.61	31.26	38.22	39.69	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/28/2020	0.00	40.05	40.35		36.86	36.48	39.07	36.13	38.4	38.17	37.62	38.06	38.6	31.25	38.17	39.59	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/29/2020	TR	40.1	40.35		36.87	36.49	39.07	36.14	38.41	38.16	37.62	38.07	38.58	31.25	38.19	39.5	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/30/2020	TR	40.1	40.35		36.91	36.54	39.1	36.15	38.41	38.16	37.6	38.06	38.57	31.25	38.18	39.5	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/31/2020	0.10	40.1	40.3		36.93	36.46	39.09	36.16	38.43	38.16	37.6	38.1	38.57	31.25	38.2	39.47	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/1/2020	0.05	40.1	40.2		37.08	36.51	39.22	36.26	38.68	38.22	37.87	38.33	38.58	31.27	38.53	39.99	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/2/2020	0.05	40.2	40.2		36.89	36.63	39.11	36.17	38.49	38.16	37.6	38.08	38.56	31.28	38.22	39.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/3/2020	0.00	40.2	40.4		36.56	36.49	39.07	36.15	38.41	38.13	37.54	38.03	38.44	31.27	38.14	39.4	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/4/2020	0.00	40.2	40.4		36.91	36.57	39.07	36.15	38.38	38.12	37.53	38.05	38.44	31.27	38.1	39.35	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/5/2020	0.00	40.2	40.4		36.61	36.55	39.07	36.15	38.39	38.11	37.52	38.05	38.41	31.26	38.07	39.33	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/6/2020	0.00	40.2	40.4		36.83	36.52	39.08	36.15	38.41	38.12	37.55	38.08	38.38	31.26	38.06	39.25	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/7/2020	0.00	40.2	40.4		37.08	36.55	39.16	36.21	38.67	38.18	37.71	38.12	38.41	31.3	38.39	39.92	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/8/2020	0.00	40.2	40.4		36.98	36.54	39.1	36.16	38.49	38.14	37.55	38.02	38.4	31.3	38.22	39.68	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/9/2020	0.00	40.2	40.4		36.92	36.62	39.07	36.15	38.43	38.11	37.49	37.99	38.37	31.29	38.16	39.52	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/10/2020	0.00	40.2	40.4		36.91	36.54	39.06	36.15	38.4	38.1	37.48	38.01	38.36	31.29	38.12	39.33	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/11/2020	0.00	40.25	40.4		36.92	36.52	39.07	36.16	38.39	38.09	37.47	38.01	38.34	31.28	38.08	39.31	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/12/2020	0.0																												

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
3/4/2020	0.00	40.3	40.6		36.96	36.67	39.09	36.16	38.32	38.07	37.26	37.86	38.2	31.32	38.22	39.43	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/5/2020	0.00	40.3	40.6		36.93	36.63	39.08	36.15	38.29	38.05	37.22	37.86	38.24	31.31	38.18	39.39	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/6/2020	0.00	40.3	40.6		36.96	36.62	39.08	36.14	38.27	38.03	37.16	37.82	38.24	31.29	38.12	39.34	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/7/2020	0.00	40.3	40.6		36.91	36.57	39.05	36.11	38.23	38	37.1	37.75	38.14	31.27	38.08	39.12	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/8/2020	0.00	40.3	40.6		36.9	36.51	39.03	36.11	38.22	37.99	37.06	37.78	38.12	31.26	38.04	39.09	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/9/2020	0.00	40.3	40.6		36.88	36.67	39.01	36.11	38.21	37.96	37.03	37.76	38.1	31.25	37.96	39.07	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/10/2020	0.00	40.3	40.6		36.88	36.57	39	36.11	38.22	37.95	37.02	37.76	38.08	31.25	37.91	39	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/11/2020	0.00	40.3	40.6		36.88	36.58	39	36.12	38.22	37.93	37	37.79	38.06	31.24	37.86	38.95	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/12/2020	0.00	40.3	40.6		36.87	36.57	38.98	36.11	38.19	37.91	36.95	37.75	38.04	31.23	37.79	38.91	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/13/2020	0.00	40.3	40.5		36.84	36.56	38.97	36.09	38.16	37.89	36.91	37.73	38.02	31.21	37.72	38.82	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/14/2020	0.00	40.2	40.3		36.82	36.54	38.95	36.08	38.14	37.86	36.87	37.7	37.97	31.2	37.66	38.78	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/15/2020	0.00	40.2	40.3		36.83	36.54	38.95	36.08	38.15	37.84	36.83	37.69	37.94	31.19	37.64	38.77	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/16/2020	0.00	40.2	40.3		36.84	36.52	38.95	36.08	38.16	37.83	36.78	37.7	37.9	31.18	37.62	38.74	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/17/2020	0.00	40.2	40.25		36.81	36.52	38.92	36.07	38.11	37.8	36.75	37.67	37.88	31.16	37.57	38.7	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/18/2020	0.00	40.25	40.25		36.81	36.51	38.91	36.07	38.09	37.78	36.7	37.64	37.85	31.15	37.52	38.66	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/19/2020	0.00	40.1	40.2		36.8	36.49	38.9	36.07	38.08	37.76	36.68	37.64	37.82	31.14	37.48	38.59	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/20/2020	0.00	40.1	40.2		36.77	36.49	38.88	36.05	38.05	37.73	36.65	37.64	37.74	31.12	37.44	38.59	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/21/2020	0.00	40.1	40.2		36.76	36.48	38.87	36.05	38.03	37.71	36.62	37.61	37.68	31.11	37.39	38.53	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/22/2020	0.00	40.1	40.2		36.73	36.47	38.84	36.03	38	37.68	36.58	37.58	37.57	31.09	37.35	38.48	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/23/2020	0.00	40	40		36.72	36.46	38.82	36.02	37.98	37.65	36.53	37.56	37.54	31.07	37.3	38.42	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/24/2020	0.00	40	40		36.69	36.45	38.8	36.02	37.95	37.63	36.51	37.55	37.56	31.05	37.25	38.39	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/25/2020	0.00	40	40		36.7	36.44	38.81	36.02	37.96	37.63	36.48	37.56	37.53	31.04	37.37	38.36	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/26/2020	0.00	40	40		36.74	36.44	38.82	36.02	37.96	37.59	36.42	37.52	37.49	31.02	37.22	38.31	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/27/2020	0.00	38	39		36.7	36.43	38.78	36.01	37.91	37.56	36.39	37.49	37.45	31	37.17	38.26	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/28/2020	0.00	39.7	39.8		36.64	36.41	38.74	35.98	37.87	37.53	36.34	37.48	37.42	30.98	37.1	38.2	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/29/2020	0.00	39.7	39.8		36.63	36.4	38.72	35.97	37.84	37.5	36.26	37.43	37.38	30.95	37.05	38.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/30/2020	0.00	39.7	39.7		36.61	36.39	38.7	35.97	37.81	37.47	36.22	37.4	37.34	30.92	37	38.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/31/2020	0.35	39.65	39.6		36.61	36.4	38.7	35.97	37.8	37.46	36.27	37.39	37.31	30.89	36.95	38.06	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/1/2020	0.00	39.5	39.6		36.71	36.4	38.74	35.98	37.89	37.44	36.19	37.35	37.27	30.9	37.07	38.04	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/2/2020	0.00	39.45	39.55		36.61	36.38	38.66	35.95	37.76	37.4	36.16	37.27	37.28	30.84	36.92	37.98	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/3/2020	0.00	39.4	39.5		36.57	36.39	38.63	35.94	37.73	37.37	36.14	37.24	37.27	30.81	36.87	37.94	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/4/2020	0.00	39.4	39.5		36.53	36.36	38.59	35.93	37.7	37.33	36.1	37.19	37.24	30.77	36.81	37.89	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/5/2020	0.10	39.4	39.4		36.76	36.38	38.8	36.04	37.99	37.38	36.07	37.47	37.25	30.84	37.16	37.9	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/6/2020	0.20	39.4	39.4		36.81	36.41	38.78	36.03	37.97	37.33	36.1	37.32	37.24	30.83	37.14	38	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/7/2020	0.00	39.3	39.4		36.62	36.39	38.62	35.97	37.76	37.3	36.07	37.21	37.2	30.76	36.87	37.89	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/8/2020	0.00	39.3	39.32		36.57	36.35	38.57	35.96	37.68	37.27	36.06	37.18		30.73	36.78	37.84	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/9/2020	0.00	39.28	39.32		36.53	36.35	38.55	35.94	37.65	37.25	36.03	37.14		30.69	36.73	37.79	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/10/2020	0.00	39.2	39.3		36.53	36.33	38.53	35.91	37.62	37.21	35.96	37.08		30.63	36.67	37.75	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/11/2020	0.00	39.1	39.2		36.45	36.32	38.49	35.89	37.58	37.17	35.87	37.33		30.55	36.6	37.7	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/12/2020	0.00	39	39		36.49	36.3	38.48	35.9	37.56	37.15	35.84	37.65		30.51	36.56	37.66	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/13/2020	0.00	39	39		36.38	36.29	38.43	35.86	37.52	37.11	35.79	37.53		30.39	36.5	37.61	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/14/2020	0.00	39	39		36.53	36.29	38.49	35.9	37.52	37.09	35.75	37.61		30.37	36.45	37.58	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/15/2020	1.20	38.95	39		36.42	36.27	38.4	35.87	37.48	37.06	35.7																		

																											SHWL	SHWL	
Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	PO1	PO4
5/6/2020	0.00	38.44	38.54		36.31	36.3	38.15	35.79	37.24	36.92	35.47	36.65		30.25	36.3	37.7	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/7/2020	0.00	38.35	38.5		36.31	36.28	38.12	35.76	37.2	36.87	35.37	36.6		30.1	36.24	37.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/8/2020	0.00	38.3	38.5		36.27	36.26	38.08	35.75	37.16	36.84	35.32	36.56		30.02	36.17	37.57	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/9/2020	0.00	38.3	38.4		36.28	36.24	38.05	35.75	37.12	36.8	35.26	36.51		29.9	36.11	37.53	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/10/2020	0.00	38.2	38.3		36.31	36.23	38.05	35.77	37.1	36.77	35.22	36.48		29.89	36.06	37.48	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/11/2020	0.00	38.2	38.3		36.19	36.21	38	35.72	37.08	36.73	35.17	36.45		29.81	36.01	37.43	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/12/2020	0.00	38.14	38.18		36.12	36.19	37.95	35.69	37.04	36.69	35.1	36.4		29.65	35.94	37.39	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/13/2020	0.00	38.05	38.1		36.09	36.17	37.9	35.67	37	36.64	35.04	36.36		29.56	35.87	37.33	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/14/2020	0.00	38.02	38.06		36.04	36.15	37.86	35.65	36.96	36.6	34.98	36.33		29.48	35.81	37.29	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/15/2020	0.20	38	38		36.01	36.13	37.83	35.64	36.93	36.56	34.94	36.3		29.44	35.75	37.25	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/16/2020	0.00	38	38		36.26	36.15	38.02	35.76	37.1	36.56	34.92	36.33		29.82	35.91	37.22	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/17/2020	0.30	38	38		36.4	36.16	38.08	35.79	37.16	36.55	34.88	36.33		29.95	36.05	37.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/18/2020	0.00	37.9	37.9		36.2	36.14	37.89	35.74	37.02	36.53	34.85	36.29		29.6	35.9	37.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/19/2020	0.00	37.88	37.9		36.04	36.11	37.8	35.68	36.92	36.48	34.82	36.25		29.4	35.73	37.13	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/20/2020	0.00	37.75	37.8		35.95	36.09	37.75	35.63	36.88	36.43	34.76	36.2		29.27	35.67	37.09	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/21/2020	0.70	37.74	37.8		35.89	36.06	37.7	35.59	36.84	36.38	34.7	36.15		29.19	35.62	37.05	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/22/2020	0.00	37.8	37.8		36.38	36.11	38.02	35.74	37.14	36.45	34.69	36.19		29.89	36.23	37.26	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/23/2020	0.00	37.75	37.8		36.15	36.08	37.81	35.68	36.98	36.37	34.67	36.12		29.49	36.08	37.26	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/24/2020	0.00	37.7	37.75		36.02	36.06	37.69	35.64	36.85	36.34	34.65	36.09		29.25	35.93	37.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/25/2020	0.40	37.7	37.7		36.06	36.05	37.7	35.7	36.82	36.33	34.63	36.06		29.2	35.84	37.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/26/2020	0.20	37.7	37.7		36.34	36.1	37.91	35.8	37.02	36.36	34.65	36.12		29.79	36.08	37.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/27/2020	1.00	37.7	37.7		36.21	36.07	37.76	35.74	36.93	36.37	34.6	36.07		29.65	36.07	37.16	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/28/2020	1.50	37.72	37.72		36.2	36.08	37.76	35.75	37.01	36.3	34.59	36.07		29.73	36.13	37.13	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/29/2020	0.30	37.8	37.8		36.7	36.26	38.36	35.98	37.67	36.73	35.31	36.58		30.63	36.89	38.35	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/30/2020	TR	37.8	37.9		36.57	36.25	38.2	35.91	37.52	36.69	35.37	36.47		30.57	36.83	38.37	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/31/2020		37.8	37.9		36.43	36.22	38.06	35.86	37.37	36.62	35.26	36.37		30.31	36.71	38.28	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/1/2020	0.00	37.8	37.9		36.34	36.2	37.95	35.81	37.22	36.54	35.1	36.26		30.11	36.57	38.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/2/2020	0.00	37.82	37.92		36.25	36.17	37.83	35.76	37.11	36.47	34.99	36.17		29.97	36.45	38.06	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/3/2020	0.05	37.85	37.95		36.22	36.16	37.77	35.77	37.03	36.43	34.92	36.12		29.88	36.37	37.98	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/4/2020	1.05	37.85	37.95		36.43	36.2	38.2	36.1	37.39	36.71	34.86	36.2		30.14	36.99	38.01	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/5/2020	0.10	37.9	38		36.64	36.27	38.22	35.96	37.56	36.63	35.11	36.48		30.58	36.94	38.47	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/6/2020	0.40	37.9	38.1		36.6	36.27	38.15	35.96	37.44	36.63	35.18	36.4		30.45	36.93	38.48	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/7/2020	0.75	38	38.2		36.82	36.36	38.46	36.03	37.76	36.82	35.43	36.7		30.74	37.36	38.85	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/8/2020	0.60	38	38.5		36.89	36.45	38.63	36.11	38.03	37.12	35.84	36.9		30.83	38.59	39.33	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/9/2020	0.00	38	38.5		36.91	36.52	38.6	36.08	37.97	37.23	36.28	36.89		30.94	37.81	39.4	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/10/2020	0.00	38.1	38.55		36.76	36.5	38.47	35.99	37.72	37.16	36.16	36.73		30.92	37.47	39.24	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/11/2020	0.50	38.15	38.58		36.68	36.48	38.39	35.95	37.57	37.12	35.96	36.63		30.9	38.84	40.31	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/12/2020	0.00	38.2	38.5		36.62	36.46	38.3	35.93	37.54	37.05	35.81	36.6		30.93	38.2	40.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/13/2020	0.10	38.2	38.6		36.76	36.46	38.29	35.93	37.44	37.03	35.71	36.52		30.95	38.07	40.03	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/14/2020	0.10	38.2	38.6		36.57	36.44	38.2	35.89	37.37	36.99	35.59	36.46		30.89	37.99	39.95	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/15/2020	0.00	38.2	38.6		36.51	36.42	38.11	35.86	37.29	36.92	35.48	36.39		30.85	37.85	39.74	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/16/2020	0.00	38.2	38.6		36.5	36.39	38.05	35.84	37.22	36.87	35.37	36.32		30.82	37.73	39.58	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/17/2020	0.00	38.2	38																										

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
7/1/2020	0.70	38.2	38.3		36.08	36.16	37.54	35.73	36.69	36.21	34.51	35.86		30.1	36.95	38.65	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/2/2020	0.40	38.2	38.3		36.19	36.19	37.7	35.81	36.74	36.33	34.49	35.89		30.2	37.52	38.86	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/3/2020	1.10	38.22	38.34		36.32	36.2	37.81	35.85	36.88	36.21	34.48	36		30.52	38.9	40.32	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/4/2020	1.00	38.5	38.58		37.06	36.64	38.77	36.2	38.37	37.55	36.86	37.09		31.1	38.65	40.85	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/5/2020	1.00	38.6	38.7		37.12	36.79	38.88	36.24	38.58	37.78	37.38	37.35		31.35	38.66	41.07	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/6/2020	0.20	39	38.8		37.14	36.87	38.94	36.24	38.61	37.95	37.58	37.45		31.42	38.82	41.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/7/2020	1.00	38.8	39.2		37.12	36.89	38.97	36.24	38.5	38.04	37.5	37.35		31.41	38.88	41.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/8/2020	0.00	38.9	39.4		37.26	36.93	39.1	36.36	38.74	38.18	37.87	37.64		31.46	38.96	41.27	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/9/2020	0.85	38.92	39.48		37.12	36.89	39.03	36.24	38.39	38.1	37.49	37.35		31.42	38.92	41.12	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/10/2020	0.30	39.02	39.64		37.28	36.94	39.14	36.37	38.69	38.28	37.89	37.75		31.49	38.99	41.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/11/2020	0.00	39.12	39.85		37.23	36.98	39.2	36.35	38.81	38.35	38.02	37.87		31.57	39.02	41.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/12/2020	0.00	39.2	40		37.19	36.96	39.19	36.31	38.64	38.35	37.83	37.68		31.52	39	41.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/13/2020	0.00	39.2	40		37.1	36.91	39.14	36.25	38.32	38.29	37.48	37.47		31.45	38.95	41.09	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/14/2020	3.60	39.2	40.2		37.04	36.87	39.1	36.21	38.12	38.26	37.27	37.32		31.4	38.91	41.05	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/15/2020	0.10	40.1	40.3		37.22	36.93	39.16	36.35	38.33	38.28	37.19	37.67		31.53	38.93	41.08	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/16/2020	0.00	39.4	40.4		37.13	36.89	39.12	36.26	38.08	38.26	37.08	37.45		31.47	38.9	41.05	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/17/2020	0.00	39.4	40.4		37.06	36.86	39.09	36.23	37.95	38.23	36.97	37.29		31.42	38.88	41.01	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/18/2020	0.00	39.44	40.4		37.01	36.83	39.05	36.19	37.84	38.2	36.86	37.2		31.37	38.85	40.97	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/19/2020	0.00	39.44	40.4		36.98	36.8	39.03	36.17	37.77	38.18	36.76	37.12		31.33	38.82	40.92	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/20/2020	0.00	39.44	40.4		36.95	36.77	38.99	36.15	37.7	38.15	36.63	37.06		31.3	38.79	40.86	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/21/2020	0.00	39.45	40.4		36.92	36.76	38.96	36.13	37.65	38.12	36.52	37		31.27	38.77	40.8	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/22/2020	0.00	39.45	40.2		36.88	36.74	38.97	36.11	37.65	38.11	36.44	36.99		31.24	38.76	40.73	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/23/2020	1.35	39.5	40.1		36.9	36.74	38.96	36.12	37.7	38.17	36.36	36.99		31.23	38.94	40.86	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/24/2020	0.00	39.55	40.05		37.03	36.75	38.99	36.19	37.81	38.11	36.39	37.04		31.26	38.78	40.83	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/25/2020	0.00	39.55	40		36.93	36.72	38.93	36.14	37.64	38.07	36.31	36.93		31.24	38.74	40.72	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/26/2020	0.00	39.55	40		36.88	36.71	38.93	36.11	37.61	38.06	36.24	36.9		31.22	38.74	40.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/27/2020	1.10	39.55	39.92		36.85	36.69	38.89	36.1	37.55	38.02	36.15	36.85		31.19	38.69	40.48	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/28/2020	0.20	39.7	40.2		37.33	36.87	39.2	36.39	38.6	38.4	37.4	37.56		31.36	39.03	41.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/29/2020	1.90	39.85	40.35		37.33	37.04	39.34	36.4	38.93	38.55	37.84	37.86		31.46	39.05	41.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/30/2020	0.40	40	40.5		37.45	37.25	39.42	36.48	38.99	38.78	38.4	38.02	37.11	31.66	39.06	41.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
7/31/2020	0.00	40	40.6		37.26	37.18	39.35	36.39	38.76	38.75	38.05	37.77	36.86	31.6	39.01	41.13	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/1/2020	0.00	40.05	40.65		37.27	37.11	39.29	36.35	38.53	38.72	37.81	37.61	36.84	31.54	38.96	41.08	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/2/2020	0.30	40	40.7		37.15	37.08	39.35	36.33	38.75	38.75	37.93	37.99	36.83	31.5	38.99	41.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/3/2020	0.00	40.1	40.7		37.19	37.05	39.27	36.36	38.48	38.74	37.72	37.66	36.82	31.48	38.96	41.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/4/2020	1.60	40.1	40.7		37.14	37.01	39.24	36.32	38.27	38.7	37.51	37.48	36.94	31.44	38.93	41.07	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/5/2020	0.00	40.1	40.9		37.35	37.13	39.36	36.46	38.94	38.82	38.22	38.05	37.21	31.69	39.01	41.11	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/6/2020	0.10	40.25	40.9		37.24	37.08	39.31	36.38	38.73	38.78	37.9	37.85	37.21	31.61	38.98	41.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/7/2020	0.10	40.3	40.9		37.2	37.04	39.29	36.37	38.61	38.77	37.75	37.8	37.2	31.54	38.97	41.09	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/8/2020	0.00	40.32	40.92		37.2	37.01	39.28	36.38	38.63	38.77	37.76	37.82	37.22	31.5	39.01	41.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/9/2020	0.10	40.3	40.9		37.13	36.97	39.25	36.34	38.42	38.74	37.54	37.7	37.21	31.45	38.98	41.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/10/2020	0.00	40.3	40.9		37.12	36.94	39.23	36.35	38.39	38.72	37.45	37.82	37.2	31.42	38.96	41.12	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/11/2020	0.50	40.3	40.9		37.07	36.89	39.21	36.32	38.25	38.7	37.34	37.58	37.3	31.38	38.93	41.09	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
8/12/2020	1.10	40.35	40.9		37.26	37	39.33	36.4	38.82	38.83	38.04	37.97	37.31	31.46	39.1	41.24	31.82	37.05	37.05	38.8									

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
9/3/2020	0.00	40.8	40.85		37.25	37.09	39.36	36.43	38.82	38.89	38.29	38.31	38.22	31.55	39.01	41.21	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/4/2020	0.00	40.8	40.8		37.2	37.05	39.32	36.4	38.7	38.85	38.13	38.25	38.28	31.5	38.98	41.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/5/2020	0.00	40.8	40.8		37.22	37.06	39.36	36.42	38.83	38.88	38.37	38.38	38.27	31.49	39.06	41.25	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/6/2020	0.00	40.8	40.7		37.15	37.02	39.32	36.39	38.71	38.85	38.2	38.35	38.26	31.46	39.02	41.21	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/7/2020	0.00	40.8	40.7		37.12	36.99	39.29	36.38	38.64	38.82	38.09	38.25	38.26	31.42	38.99	41.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/8/2020	0.00	40.8	40.7		37.25	37.04	39.36	36.45	38.88	38.87	38.39	38.34	38.32	31.47	39.05	41.25	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/9/2020	0.90	40.7	40.8		37.18	37	39.32	36.4	38.78	38.85	38.28	38.37	38.32	31.45	39.01	41.21	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/10/2020	0.00	40.7	40.75		37.14	36.98	39.3	36.39	38.71	38.83	38.15	38.29	38.31	31.43	38.98	41.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/11/2020	0.30	40.7	40.75		37.1	36.97	39.32	36.37	38.76	38.86	38.28	38.34	38.33	31.42	39	41.2	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/12/2020	1.20	40.7	40.75		37.13	36.97	39.31	36.4	38.76	38.83	38.18	38.29	38.35	31.45	38.97	41.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/13/2020	0.00	40.8	40.7		37.14	37.11	39.5	36.4	39.08	39.03	38.7	38.53	38.47	31.6	39.1	41.33	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/14/2020	0.30	40.8	40.8		37.3	37.12	39.41	36.46	39.05	39	38.68	38.45	38.55	31.66	39.11	41.3	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/15/2020	0.00	40.8	40.8		37.22	37.09	39.37	36.43	38.88	38.94	38.53	38.54	38.57	31.6	39.06	41.27	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/16/2020	0.00	40.75	40.8		37.17	37.07	39.35	36.42	38.82	38.91	38.48	38.44	38.58	31.55	39.03	41.24	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/17/2020	0.65	40.72	40.78		37.14	37.03	39.32	36.41	38.78	38.89	38.43	38.37	38.63	31.5	39	41.22	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/18/2020	0.00	40.7	40.8		37.23	37.06	39.35	36.44	38.88	38.92	38.53	38.43	38.63	31.53	39.03	41.25	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/19/2020	0.00	40.7	40.8		37.16	37.02	39.31	36.4	38.8	38.88	38.46	38.42	38.66	31.49	39	41.22	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/20/2020	3.30	40.7	40.8		37.3	37.23	39.54	36.46	39.12	39.13	38.79	38.67	38.85	31.62	39.11	41.38	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/21/2020	0.10	40.8	41		37.35	37.2	39.42	36.49	39	39.07	38.79	38.59	38.9	31.76	39.13	41.31	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/22/2020	0.00	40.8	41		37.28	37.15	39.39	36.45	38.94	39.01	38.79	38.64	38.92	31.67	39.08	41.28	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/23/2020	0.00	40.75	41		37.23	37.11	39.35	36.44	38.91	38.97	38.77	38.6	38.92	31.59	39.05	41.24	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/24/2020	0.00	40.72	40.97		37.19	37.07	39.32	36.42	38.88	38.93	38.75	38.65	38.91	31.54	39.01	41.21	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/25/2020	0.00	40.72	40.92		37.15	37.03	39.3	36.41	38.87	38.9	38.73	38.72	38.9	31.49	38.98	41.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/26/2020	0.00	40.7	40.9		37.12	37	39.27	36.39	38.86	38.87	38.7	38.68	38.88	31.45	38.96	41.15	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/27/2020	1.05	40.65	40.85		37.09	36.96	39.26	36.38	38.85	38.85	38.69	38.66	38.89	31.42	38.94	41.13	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/28/2020	0.55	40.7	40.9		37.23	37.01	39.36	36.5	39.01	38.95	38.79	38.73	38.96	31.5	39.01	41.22	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/29/2020	1.10	40.72	40.92		37.29	36.66	39.36	36.45	39	38.96	38.82	38.76	38.99	31.5	39.03	41.26	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
9/30/2020	0.00	40.72	40.9		37.3	37.08	39.41	36.46	39.08	39.03	38.94	38.92	39.08	31.69	39.12	41.32	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/1/2020	0.00	40.72	40.9		37.24	37.08	39.36	36.44	39.02	38.98	38.92	38.96	39.07	31.63	39.06	41.25	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/2/2020	0.00	40.72	40.9		37.2	37.06	39.34	36.43	38.99	38.93	38.89	38.85	39.05	31.57	39.03	41.22	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/3/2020	0.00	40.7	40.9		37.17	37.03	39.31	36.41	38.97	38.89	38.87	38.82	39.04	31.52	39	41.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/4/2020	0.80	40.75	40.85		37.27	37.08	39.38	36.45	39.04	38.98	38.93	38.87	39.08	31.56	39.02	41.24	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/5/2020	0.45	40.75	40.85		37.26	37.05	39.4	36.49	39.07	38.99	38.93	38.89	39.09	31.57	39.01	41.22	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/6/2020	0.00	40.78	40.87		37.2	37	39.36	36.44	39.02	38.98	38.92	38.87	39.08	31.55	38.99	41.21	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/7/2020	0.00	40.8	40.9		37.16	36.96	39.33	36.42	39	38.95	38.9	38.86	39.05	31.52	38.96	41.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/8/2020	0.00	40.8	40.9		37.14	36.95	39.32	36.41	39	38.94	38.89	38.85	39.04	31.5	38.94	41.15	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/9/2020	0.10	40.76	40.8		37.1	36.94	39.3	36.39	38.98	38.91	38.87	38.83	39.04	31.47	38.92	41.13	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/10/2020	0.20	40.72	40.76		37.08	36.93	39.29	36.39	38.99	38.92	38.87	38.84	39.04	31.46	39	41.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/11/2020	0.30	40.7	40.75		37.1	36.92	39.29	36.39	38.99	38.92	38.87	38.84	39.04	31.45	38.96	41.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/12/2020	0.00	40.7	40.75		37.12	36.92	39.3	36.39	39	38.93	38.88	38.87	39.04	31.46	38.96	41.2	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/13/2020	0.00	40.68	40.72		37.07	36.9	39.27	36.36	38.97	38.9	38.85	38.89	39.01	31.44	38.93	41.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/14/2020	0.00	40.65	40.7		37.06	36.88	39.26	36.35	38.94	38.89	38.82	38.9	38.99	31.41	38.91	41.15	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
10/15/2020	0.00</																												

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
11/6/2020	0.00	40.16	40.18		36.99	36.79	39.11	36.24	38.71	38.75	38.41	38.47	38.66	31.23	38.72	40.52	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/7/2020	0.00	40.16	40.18		36.96	36.8	39.09	36.23	38.68	38.72	38.36	38.44	38.63	31.23	38.7	40.39	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/8/2020	0.00	40.1	40.2		36.95	36.78	39.08	36.23	38.68	38.71	38.33	38.43	38.61	31.23	38.69	40.3	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/9/2020	1.90	40.1	40.2		36.96	36.77	39.11	36.24	38.72	38.72	38.38	38.49	38.63	31.23	38.74	40.37	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/10/2020	0.70	40.2	40.3		37.19	36.91	39.23	36.35	38.92	38.86	38.6	38.58	38.75	31.42	38.83	40.93	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/11/2020	0.00	40.3	40.4		37.22	37.03	39.32	36.4	38.97	38.99	38.7	38.65	38.82	31.59	38.92	41.04	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/12/2020	0.80	40.35	40.5		37.27	37.07	39.38	36.44	39.02	39.07	38.75	38.71	38.87	31.6	38.98	41.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/13/2020	0.00	40.4	40.5		37.2	37.06	39.32	36.4	38.92	39.02	38.73	38.68	38.85	31.59	38.95	41.13	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/14/2020	0.00	40.4	40.6		37.16	37.03	39.3	36.39	38.88	38.99	38.7	38.67	38.85	31.55	38.92	41.12	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/15/2020	0.00	40.4	40.7		37.12	37.02	39.28	36.38	38.86	38.98	38.68	38.66	38.83	31.51	38.89	41.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/16/2020	0.00	40.4	40.7		37.1	36.99	39.26	36.37	38.83	38.95	38.66	38.63	38.81	31.48	38.88	41.08	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/17/2020	0.00	40.5	40.75		37.09	36.96	39.23	36.35	38.8	38.92	38.61	38.61	38.78	31.44	38.85	41.05	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/18/2020	0.00	40.5	40.8		37.05	36.95	39.2	36.33	38.78	38.89	38.57	38.58	38.77	31.41	38.81	41.02	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/19/2020	0.10	40.4	40.7		37.04	36.91	39.18	36.32	38.76	38.87	38.54	38.56	38.74	31.38	38.8	40.98	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/20/2020	0.25	40.45	40.78		37.07	36.9	39.21	36.34	38.8	38.86	38.54	38.59	38.75	31.38	38.81	40.9	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/21/2020	0.00	40.45	40.82		37.11	36.9	39.23	36.35	38.83	38.89	38.59	38.59	38.75	31.39	38.83	40.97	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/22/2020	4.20	40.6	40.95		37.47	37.12	39.57	36.58	39.17	39.19	38.85	38.78	39.06	31.55	38.99	41.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/23/2020	0.00	40.85	41.2		37.51	37.48	39.46	36.58	39.2	39.26	39.14	39.06	39.27	32.02	39.11	41.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/24/2020	0.30	40.85	41.18		37.41	37.41	39.38	36.52	39.17	39.15	39.1	39.04	39.24	31.81	39.03	41.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/25/2020	0.00	40.85	41.2		37.32	37.27	39.34	36.47	39.13	39.09	39.06	39.01	39.21	31.7	38.97	41.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/26/2020	0.00	40.85	41.2		37.26	37.21	39.32	36.45	39.1	39.05	39.03	38.97	39.16	31.63	38.93	41.14	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/27/2020	0.00	40.85	41.18		37.21	37.15	39.31	36.44	39.07	39.02	39	38.94	39.14	31.57	38.9	41.04	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/28/2020	0.00	40.85	41.18		37.19	37.08	39.3	36.43	39.05	39	38.97	38.91	39.11	31.53	38.87	41.04	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/29/2020	0.00	40.85	41.5		37.16	37.07	39.28	36.42	39.03	38.98	38.93	38.88	39.08	31.5	38.85	40.98	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
11/30/2020	0.30	40.8	40.95		37.23	37.06	39.36	36.46	39.06	39.02	38.94	38.9	39.09	31.47	38.93	41.03	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/1/2020	0.00	40.82	40.95		37.16	37.02	39.27	36.4	39	38.95	38.9	38.84	39.05	31.47	38.83	40.98	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/2/2020	0.00	40.8	40.95		37.14	37.01	39.25	36.38	38.97	38.92	38.86	38.81	39.02	31.44	38.81	40.98	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/3/2020	0.00	40.78	40.93		37.07	36.98	39.24	36.38	38.94	38.9	38.83	38.79	38.99	31.42	38.8	40.98	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/4/2020	0.00	40.75	40.88		37.11	36.98	39.24	36.37	38.93	38.89	38.81	38.77	38.98	31.4	38.79	40.9	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/5/2020	0.00	40.72	40.83		37.1	36.93	39.23	36.36	38.92	38.88	38.8	38.75	38.95	31.39	38.77	40.88	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/6/2020	0.00	40.7	40.75		37.09	36.89	39.22	36.35	38.9	38.86	38.76	38.73	38.93	31.37	38.76	40.85	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/7/2020	0.20	40.7	40.7		37.12	36.92	39.24	36.36	38.92	38.87	38.77	38.72	38.94	31.37	38.77	40.84	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/8/2020	0.00	40.68	40.68		37.1	36.87	39.21	36.34	38.88	38.84	38.74	38.7	38.91	31.36	38.76	40.81	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/9/2020	0.00	40.68	40.68		37.08	36.83	39.2	36.33	38.86	38.82	38.7	38.68	38.89	31.34	38.74	40.7	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/10/2020	0.00	40.68	40.68		37.07	36.91	39.2	36.33	38.85	38.81	38.68	38.67	38.86	31.33	38.73	40.71	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/11/2020	0.00	40.68	40.68		37.06	36.86	39.19	36.32	38.84	38.8	38.66	38.65	38.84	31.32	38.73	40.76	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/12/2020	0.00	40.64	40.64		37.05	36.86	39.18	36.32	38.83	38.79	38.64	38.64	38.83	31.31	38.72	40.67	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/13/2020	0.00	40.6	40.6		37.07	36.88	39.19	36.32	38.84	38.79	38.63	38.64	38.82	31.31	38.72	40.67	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/14/2020	0.00	40.6	40.6		37.06	36.84	39.19	36.32	38.83	38.79	38.61	38.63	38.81	31.31	38.72	40.63	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/15/2020	0.00	40.6	40.68		37.06	36.86	39.18	36.31	38.82	38.77	38.59	38.61	38.79	31.31	38.7	40.43	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/16/2020	0.00	40.6	40.68		37.05	36.78	39.18	36.31	38.82	38.77	38.58	38.61	38.78	31.3	38.7	40.45	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
12/17/2020	0.00	40.64	40.8		37.12	36.87	39.21	36.33	38.85	38.79	38.6	38.61	38.79	31.32	38.73	40.55	31.82	37.05											

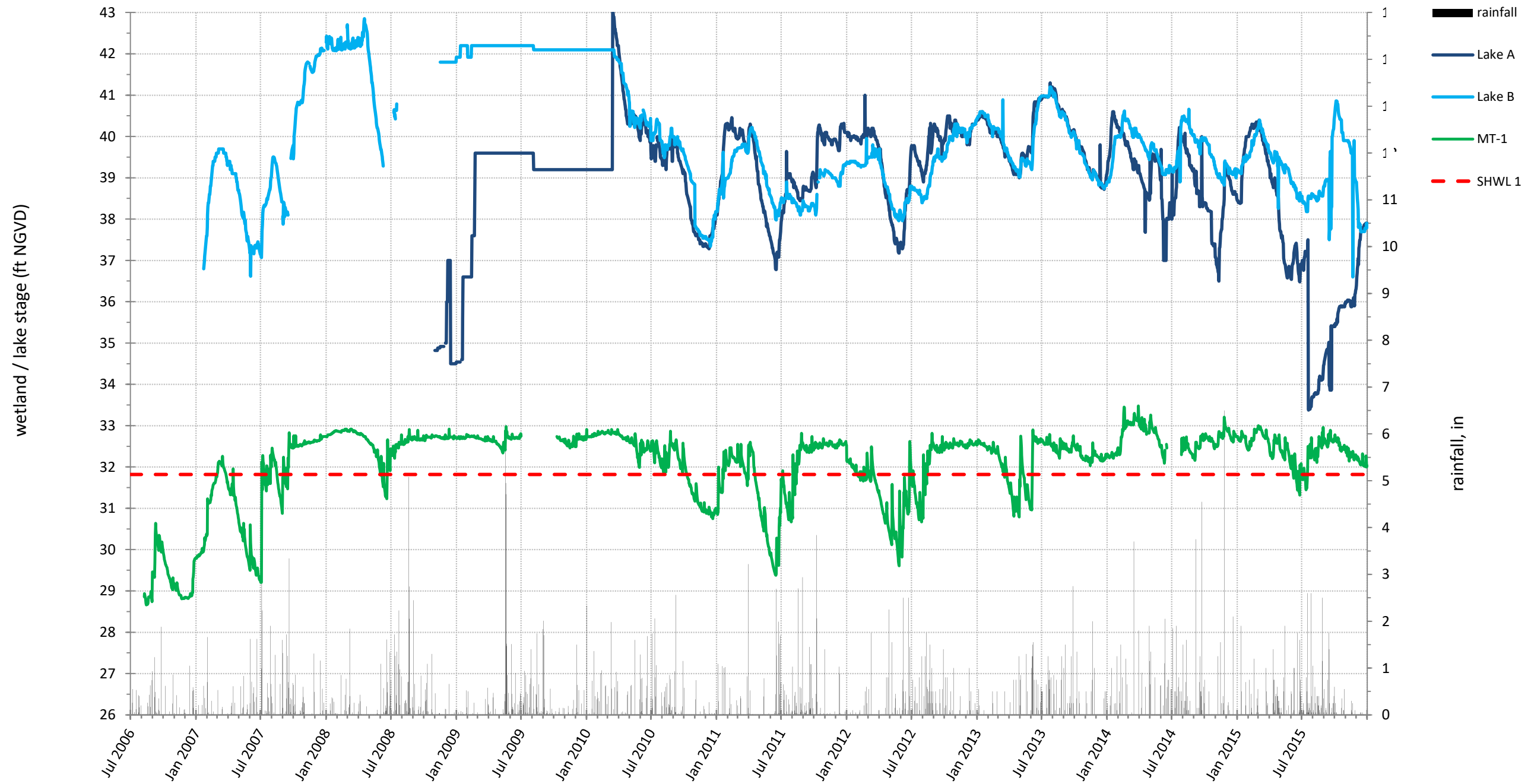
Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
1/1/2021	0.00	40.68	41.18		37.05	36.81	39.15	36.3	38.74	38.64	38.26	38.49	38.58	31.29	38.6	39.87	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/2/2021	0.00	40.7	41.2		37.05	36.74	39.15	36.29	38.74	38.64	38.25	38.5	38.57	31.28	38.59	39.71	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/3/2021	0.00	40.72	41.22		37.06	36.85	39.15	36.29	38.74	38.62	38.22	38.49	38.57	31.28	38.58	39.61	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/4/2021	0.00	40.7	42.2		37.08	36.74	39.15	36.3	38.74	38.62	38.19	38.47	38.55	31.28	38.57	39.68	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/5/2021	0.00	40.75	41.2		37.07	36.6	39.14	36.29	38.72	38.61	38.16	38.46	38.53	31.28	38.56	39.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/6/2021	0.00	40.75	41.2		37.06	36.8	39.13	36.29	38.7	38.58	38.1	38.45	38.52	31.27	38.53	39.54	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/7/2021	0.10	40.75	41.2		37.07	36.8	39.13	36.3	38.71	38.58	38.09	38.46	38.51	31.27	38.53	39.5	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/8/2021	0.00	40.75	41.2		37.13	36.84	39.17	36.32	38.78	38.59	38.15	38.47	38.51	31.28	38.6	39.72	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/9/2021	0.00	40.75	41.25		37.09	36.73	39.14	36.31	38.72	38.55	38.05	38.42	38.5	31.28	38.51	39.46	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/10/2021	0.00	40.75	41.2		37.09	36.79	39.14	36.31	38.7	38.54	38.02	38.41	38.48	31.28	38.51	39.42	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/11/2021	0.00	40.8	41.25		37.09	36.77	39.14	36.32	38.71	38.53	38.02	38.42	38.47	31.28	38.51	39.37	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/12/2021	0.00	40.8	41.25		37.08	36.74	39.13	36.31	38.7	38.52	37.98	38.42	38.45	31.28	38.49	39.34	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/13/2021	0.00	40.8	41.25		37.09	36.78	39.14	36.31	38.7	38.51	37.97	38.42	38.45	31.27	38.48	39.32	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/14/2021	0.00	40.8	41.25		37.1	36.79	39.14	36.31	38.7	38.51	37.96	38.4	38.43	31.28	38.47	39.27	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/15/2021	0.10	40.8	41.25		37.09	36.73	39.14	36.32	38.69	38.51	37.95	38.42	38.42	31.27	38.46	39.15	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/16/2021	0.00	40.8	41.25		37.1	36.83	39.13	36.31	38.7	38.48	37.9	38.39	38.41	31.28	38.45	39.18	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/17/2021	0.00	40.8	41.25		37.08	36.72	39.13	36.31	38.66	38.47	37.87	38.37	38.4	31.27	38.42	39.07	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/18/2021	0.00	40.8	41.2		37.04	36.81	39.09	36.31	38.63	38.46	37.8	38.41	38.37	31.27	38.4	39.03	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/19/2021	0.00	40.8	41.2		37.01	36.75	39.07	36.3	38.59	38.42	37.76	38.34	38.36	31.26	38.36	39.04	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/20/2021	0.00	40.8	41.2		37.01	36.81	39.07	36.31	38.59	38.41	37.78	38.37	38.34	31.26	38.33	39.01	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/21/2021	0.00	40.8	41.2		37.01	36.81	39.06	36.31	38.58	38.4	37.76	38.36	38.32	31.26	38.3	38.99	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/22/2021	0.00	40.8	41.2		37.01	36.74	39.06	36.31	38.57	38.39	37.73	38.35	38.31	31.25	38.28	39.06	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/23/2021	0.00	40.8	41.2		37.07	36.76	39.11	36.31	38.65	38.39	37.72	38.36	38.31	31.26	38.33	39	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/24/2021	0.05	40.8	41.15		37.1	36.69	39.11	36.32	38.69	38.39	37.75	38.37	38.3	31.27	38.37	38.88	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/25/2021	0.00	40.85	41.15		37.06	36.74	39.08	36.32	38.63	38.37	37.71	38.35	38.28	31.26	38.27	38.95	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/26/2021	0.00	40.85	41.2		37.07	36.72	39.09	36.31	38.62	38.36	37.67	38.34	38.27	31.27	38.29	38.9	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/27/2021	0.40	40.85	41.2		37.07	36.75	39.09	36.31	38.61	38.36	37.65	38.35	38.26	31.27	38.3	38.83	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/28/2021	0.00	40.85	41.2		37.17	36.87	39.17	36.36	38.83	38.44	37.86	38.35	38.31	31.34	38.48	39.53	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/29/2021	0.00	40.85	41.2		37.11	36.79	39.14	36.35	38.73	38.41	37.78	38.34	38.29	31.34	38.36	39.29	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/30/2021	0.00	40.8	41.2		37.08	36.81	39.13	36.34	38.68	38.39	37.72	38.33	38.27	31.33	38.32	39.27	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
1/31/2021	0.25	40.8	41.2		37.07	36.85	39.12	36.35	38.65	38.38	37.71	38.34	38.26	31.32	38.31	39.16	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/1/2021	0.00	40.9	41.25		37.14	36.74	39.16	36.36	38.75	38.4	37.72	38.34	38.27	31.34	38.4	39.32	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/2/2021	0.00	40.85	41.2		37.09	36.78	39.14	36.34	38.66	38.37	37.64	38.29	38.25	31.33	38.31	39.19	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/3/2021	0.00	40.85	41.2		37.07	36.73	39.12	36.33	38.61	38.35	37.58	38.27	38.22	31.31	38.26	39.05	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/4/2021	0.00	40.8	41.2		37.05	36.85	39.11	36.33	38.58	38.33	37.55	38.27	38.2	31.31	38.23	38.82	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/5/2021	0.00	40.8	41.15		37.04	36.73	39.1	36.33	38.56	38.32	37.55	38.29	38.19	31.3	38.18	38.84	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/6/2021	0.00	40.9	41.4		37.07	36.8	39.13	36.33	38.6	38.33	37.56	38.31	38.18	31.3	38.19	38.8	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/7/2021	0.45	40.9	41.15		37.17	36.82	39.2	36.37	38.82	38.41	37.8	38.35	38.21	31.34	38.63	39.62	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/8/2021	0.00	40.9	41.3		37.12	36.84	39.17	36.35	38.72	38.38	37.64	38.31	38.2	31.34	38.37	39.37	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/9/2021	0.00	40.9	41.4		37.09	36.79	39.16	36.35	38.68	38.36	37.59	38.28	38.18	31.33	38.36	39.45	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/10/2021	0.00	40.9	41.4		37.08	36.7	39.15	36.35	38.64	38.34	37.55	38.29	38.17	31.33	38.33	39.2	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
2/11/2021	0.10	40.9	41.5		37.08	36.76	39.14	36.34	38.61	38.33	37.53	38.27	38.15	31.32	38.28	39.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3

Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
3/6/2021	0.02	41.2	41.8		37.18	36.82	39.24	36.38	38.72	38.48	37.47	38.41	38.11	31.31	38.49	39.36	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/7/2021	0.00	41.6	42		37.15	36.85	39.19	36.35	38.64	38.45	37.37	38.27	38.1	31.31	38.42	39.3	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/8/2021	0.00	41.6	42		37.1	36.77	39.17	36.34	38.56	38.42	37.32	38.26	38.09	31.29	38.36	39.21	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/9/2021	0.00	41.6	42		37.09	36.75	39.16	36.34	38.54	38.4	37.29	38.3	38.07	31.28	38.34	39.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/10/2021	0.00	41.6	41.2		37.09	36.77	39.15	36.33	38.53	38.38	37.27	38.31	38.07	31.28	38.3	39.03	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/11/2021	0.00	41.1	41.8		37.08	36.76	39.15	36.33	38.51	38.36	37.25	38.29	38.07	31.27	38.26	38.98	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/12/2021	0.00	41.1	41.8		37.08	36.75	39.14	36.32	38.5	38.35	37.25	38.29	38.06	31.26	38.24	38.98	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/13/2021	0.00	41.1	41.7		37.07	36.75	39.13	36.32	38.49	38.32	37.23	38.27	38.05	31.26	38.19	38.86	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/14/2021	0.00	41.6	41.9		37.07	36.75	39.12	36.32	38.47	38.31	37.2	38.28	38.04	31.25	38.16	38.79	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/15/2021	0.00	41.6	41.9		37.06	36.74	39.11	36.31	38.47	38.28	37.17	38.26	38.03	31.24	38.11	38.72	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/16/2021	0.00	41.6	41.9		37.06	36.73	39.1	36.3	38.46	38.27	37.16	38.28	38.03	31.24	38.07	38.79	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/17/2021	0.00	41.1	41.7		37.04	36.73	39.09	36.26	38.44	38.25	37.15	38.26	38.01	31.22	38.01	38.72	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/18/2021	0.00	41	41.4		37.04	36.73	39.08	36.3	38.44	38.24	37.13	38.26	38.02	31.22	37.98	38.69	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/19/2021	0.00	41	41.4		37.04	36.71	39.07	36.26	38.41	38.21	37.09	38.21	37.99	31.21	37.9	38.67	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/20/2021	0.00	40.9	41.3		37.2	36.73	39.18	36.3	38.74	38.27	37.27	38.41	38.02	31.24	38.47	38.76	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/21/2021	0.45	41	41.4		37.22	36.74	39.2	36.36	38.82	38.32	37.38	38.37	38.04	31.27	38.37	39	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/22/2021	0.05	41	41.4		37.15	36.78	39.17	36.29	38.72	38.28	37.29	38.3	38.02	31.28	38.21	38.97	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/23/2021	0.00	40.9	41.3		37.1	36.79	39.13	36.33	38.62	38.25	37.21	38.24	38.01	31.28	38.08	38.9	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/24/2021	0.00	41	41.7		37.07	36.77	39.1	36.25	38.52	38.21	37.11	38.18	37.99	31.27	37.96	38.75	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/25/2021	0.00	41	41.7		37.04	36.75	39.09	36.21	38.46	38.19	37.06	38.18	37.98	31.26	37.9	38.66	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/26/2021	0.00	41	41.7		37.02	36.74	39.07	36.24	38.41	38.17	37.05	38.16	37.96	31.25	37.8	38.58	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/27/2021	0.00	41	41.7		37	36.73	39.06	36.23	38.37	38.15	37.03	38.13	37.94	31.24	37.71	38.53	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/28/2021	0.00	40.9	41		37	36.72	39.05	36.25	38.35	38.13	37.01	38.13	37.92	31.22	37.67	38.46	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/29/2021	0.00	40.9	41		37.02	36.72	39.05	36.25	38.36	38.11	36.97	38.12	37.91	31.21	37.64	38.44	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/30/2021	0.00	40.9	41		37	36.72	39.08	36.27	38.47	38.11	36.97	38.19	37.88	31.2	37.59	38.39	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
3/31/2021	0.00	40.9	41		36.98	36.71	39.03	36.27	38.34	38.08	36.94	38.1	37.87	31.19	37.59	38.36	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/1/2021	0.00	40.9	41		37.12	36.74	39.07	36.31	38.49	38.07	36.91	38.16	37.86	31.24	37.59	38.32	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/2/2021	0.00	40.9	41		37.06	36.72	39.02	36.27	38.34	38.03	36.84	38.04	37.83	31.22	37.48	38.26	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/3/2021	0.00	40.8	40.9		37.01	36.72	39	36.27	38.31	38.01	36.81	38.01	37.8	31.2	37.44	38.21	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/4/2021	0.00	40.8	40.9		36.99	36.71	38.99	36.27	38.29	37.99	36.8	38.01	37.78	31.19	37.4	38.17	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/5/2021	0.00	40.8	40.9		36.97	36.69	38.97	36.27	38.26	37.95	36.75	37.98	37.76	31.18	37.36	38.09	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/6/2021	0.00	40.8	40.9		36.94	36.7	38.95	36.25	38.23	37.93	36.71	37.89	37.73	31.16	37.29	38.07	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/7/2021	0.00	40.8	40.9		36.92	36.69	38.93	36.24	38.19	37.89	36.66	37.8	37.7	31.15	37.24	38	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/8/2021	0.00	40.8	40.8		36.9	36.68	38.91	36.23	38.16	37.86	36.6	37.75	37.68	31.13	37.19	37.97	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/9/2021	0.00	40.7	40.7		36.89	36.68	38.9	36.23	38.14	37.83	36.55	37.67	37.65	31.11	37.14	37.93	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/10/2021	0.00	40.7	40.7		36.88	36.67	38.88	36.23	38.11	37.81	36.55	37.63	37.62	31.09	37.09	37.9	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/11/2021	1.40	40.8	40.7		37.4	36.88	39.34	36.5	39.06	38.42	37.56	38.64	37.77	31.3	38.93	38.35	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/12/2021	0.00	40.9	40.8		37.2	36.85	39.13	36.37	38.85	38.13	37.21	37.98	37.74	31.33	38.18	39.16	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/13/2021	0.00	40.9	40.8		37.12	36.83	39.07	36.33	38.64	38.07	36.99	37.82	37.71	31.32	37.89	38.95	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/14/2021	0.00	40.9	40.8		37.07	36.81	39.04	36.31	38.5	38.03	36.88	37.74	37.69	31.3	37.74	38.85	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/15/2021	0.00	40.6	40.6		37.03	36.79	39.02	36.3	38.39	38.01	36.81	37.69	37.67	31.28	37.57	38.7	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/16/2021	0.00	40.6	40.6		37.02	36.78	39.04	36.3	38.36	38.01	36.8	37.72	37.65	31.27	37.52	38.64	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
4/17/2021	0.00	40.7	40.7		37.1	36.78	39																						

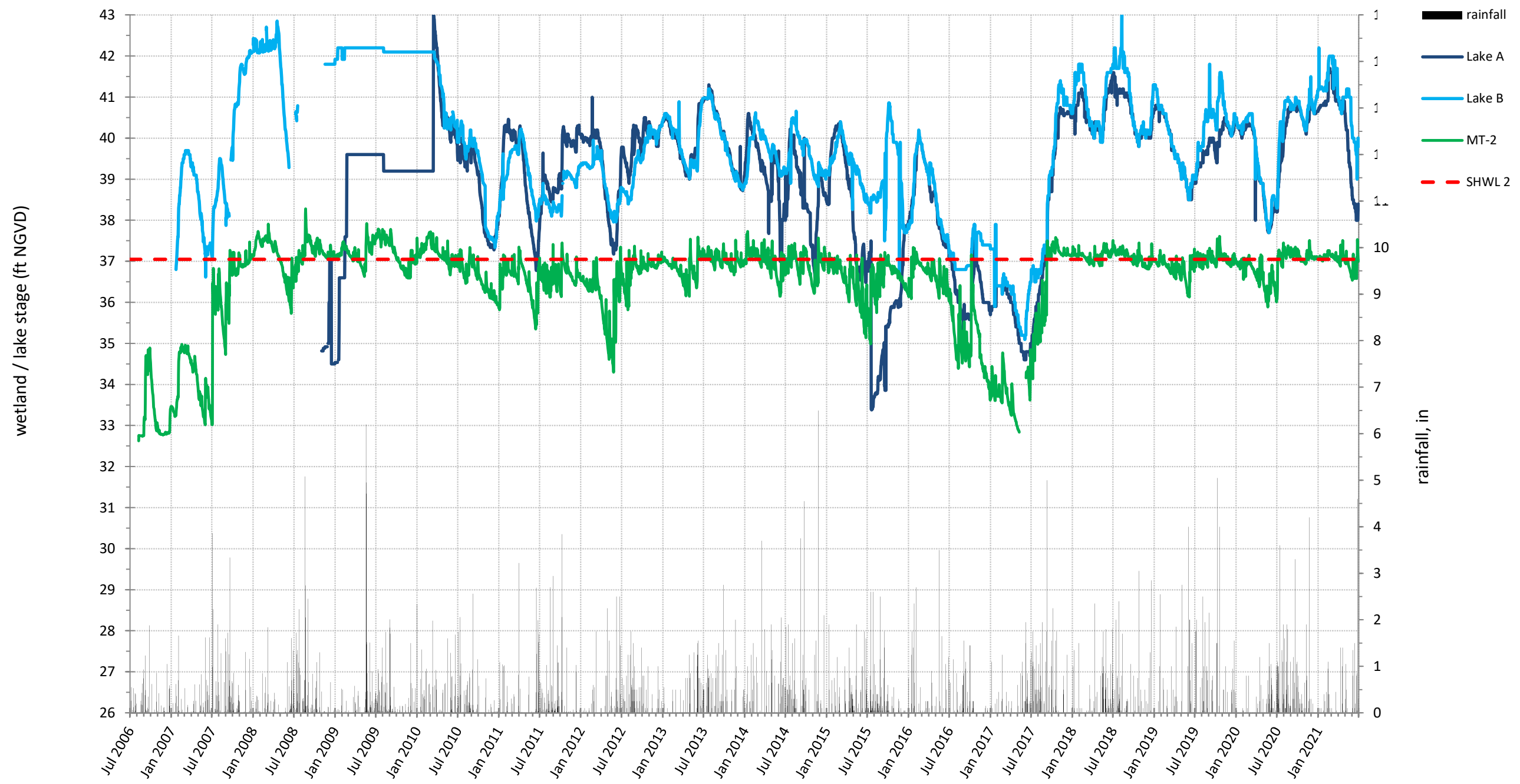
Date	rainfall	Lake A	Lake B	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6	MT-7	MT-8	MT-9	MT-10X	MT-11a	PO-1	PO-4	SHWL 1	SHWL 2	SHWL 3	SHWL 4	SHWL 5	SHWL 6	SHWL 7	SHWL 8	SHWL 9	SHWL 10x	SHWL 11A	SHWL PO1	SHWL PO4
5/9/2021	0.00	40.2	41.1		37.01	36.77	39.03	36.24	38.06	38.19	36.74	37.59	37.6	31.27	37.88	39.1	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/10/2021	0.00	40.2	41.1		36.97	36.76	39	36.22	37.99	38.16	36.69	37.56	37.57	31.24	37.74	38.98	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/11/2021	0.10	40.2	41.1		36.98	36.75	39	36.21	37.97	38.15	36.64	37.6	37.55	31.22	37.74	38.93	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/12/2021	0.00	40	41.2		36.97	36.75	38.97	36.21	37.95	38.14	36.63	37.62	37.52	31.21	37.72	38.89	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/13/2021	0.00	39.9	41.2		37.04	36.75	39	36.22	38	38.13	36.61	37.64	37.51	31.21	37.93	38.92	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/14/2021	0.00	39.7	41.2		36.99	36.73	38.95	36.2	37.92	38.09	36.56	37.52	37.47	31.19	37.73	38.82	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/15/2021	0.00	39.7	41.2		36.93	36.72	38.9	36.17	37.85	38.04	36.48	37.45	37.44	31.16	37.55	38.74	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/16/2021	0.00	39.7	41.2		36.9	36.71	38.85	36.15	37.79	38	36.4	37.39	37.42	31.14	37.45	38.71	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/17/2021	0.00	39.7	41.2		36.89	36.69	38.83	36.14	37.75	37.97	36.34	37.36	37.39	31.11	37.39	38.66	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/18/2021	0.00	39.4	41.15		36.87	36.68	38.79	36.13	37.71	37.93	36.29	37.31	37.35	31.09	37.35	38.6	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/19/2021	0.00	39.4	41		36.85	36.67	38.77	36.11	37.67	37.89	36.23	37.26	37.32	31.06	37.3	38.54	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/20/2021	0.00	39.4	41		36.83	36.66	38.73	36.1	37.63	37.86	36.15	37.22	37.29	31.03	37.23	38.45	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/21/2021	0.00	39.3	41		36.81	36.64	38.69	36.09	37.59	37.82	36.1	37.18	37.25	31	37.17	38.38	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/22/2021	0.00	39.3	41		36.79	36.63	38.65	36.08	37.55	37.79	36.07	37.16	37.22	30.96	37.1	38.29	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/23/2021	0.00	39.3	41		36.78	36.62	38.61	36.07	37.51	37.76	36.02	37.15	37.19	30.92	37.05	38.21	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/24/2021	0.00	39.3	41		36.75	36.61	38.57	36.05	37.47	37.72	35.95	37.28	37.15	30.87	36.98	38.13	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/25/2021	0.00	39.2	41		36.72	36.59	38.52	36.03	37.43	37.68	35.89	37.15	37.11	30.81	36.92	38.04	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/26/2021	0.00	39	41		36.7	36.58	38.49	36.02	37.4	37.63	35.84	37.13	37.07	30.75	36.86	37.97	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/27/2021	0.00	38.9	40.4		36.68	36.57	38.46	36.02	37.36	37.59	35.79	37.11	37.03	30.71	36.79	37.9	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/28/2021	0.00	38.9	40.4		36.64	36.56	38.41	36	37.33	37.55	35.75	37.08	37	30.64	36.73	37.82	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/29/2021	0.00	38.8	40.3		36.61	36.54	38.36	35.99	37.29	37.5	35.7	37.07	36.97	30.54	36.66	37.75	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/30/2021	0.00	38.8	40.3		36.64	36.53	38.34	35.98	37.27	37.46	35.62	37.06	36.93	30.49	36.61	37.7	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
5/31/2021	0.00	38.8	40.3		36.6	36.52	38.3	35.97	37.24	37.41	35.54	37.01	36.88	30.38	36.54	37.63	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
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6/2/2021	0.10	38.6	40.1		36.54	36.48	38.21	35.94	37.17	37.33	35.45	36.91	36.81	30.13	36.39	37.51	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/3/2021	0.02	38.5	40		36.55	36.49	38.32	36.02	37.25	37.33	35.43	37.11	36.8	30.02	36.37	37.46	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/4/2021	1.35	38.5	40		36.58	36.83	39.1	36.42	37.96	37.84	35.68	37.61	36.88	30.08	36.55	37.44	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/5/2021	0.80	38.5	40		37.09	36.64	38.61	36.15	37.76	37.53	35.91	37.2	36.86	30.78	37.11	37.96	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/6/2021	0.00	38.5	40		37.18	36.68	38.89	36.35	37.96	37.58	35.79	37.59	36.86	30.97	36.88	37.88	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/7/2021	0.00	38.5	40		36.97	36.67	38.5	36.14	37.63	37.46	35.71	37.24	36.83	30.75	36.82	37.8	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
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6/12/2021	1.50	38.4	39.9		36.58	36.57	38.09	35.97	37.11	37.19	35.33	36.76	36.6	30.23	36.23	37.3	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/13/2021	0.10	38.3	39.9		36.72	36.56	38.1	35.99	37.07	37.15	35.26	36.73	36.67	30.25	36.16	37.26	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/14/2021	0.00	38.3	39.9		37.06	36.65	38.55	36.17	37.55	37.35	35.38	37.24	36.66	30.76	36.65	37.34	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/15/2021	0.00	38.4	39.9		36.93	36.64	38.35	36.1	37.42	37.28	35.38	37.04	36.62	30.65	36.78	37.52	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/16/2021	0.20	38.4	39.9		36.79	36.62	38.17	36.05	37.24	37.18	35.25	36.91	36.59	30.52	36.6	37.43	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/17/2021	0.00	38.2	39.7		36.71	36.61	38.09	36.02	37.12	37.14	35.22	36.8	36.55	30.41	36.43	37.31	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/18/2021	0.00	38.2	39.7		36.64	36.6	38.03	35.99	37.05	37.09	35.18	36.74	36.51	30.31	36.28	37.23	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/19/2021	0.00	38.2	39.7		36.61	36.58	38	35.98	37.03	37.06	35.15	36.71	36.47	30.21	36.17	37.21	31.82	37.05	37.05	38.8	35.9	36.7	38.3	36.6	37.1	37.5	31.3	40.1	41.3
6/20/2021	0.00	38	39.6		36.59	36.57	37.97																						

WETLAND MT- 1 : WELL DATA

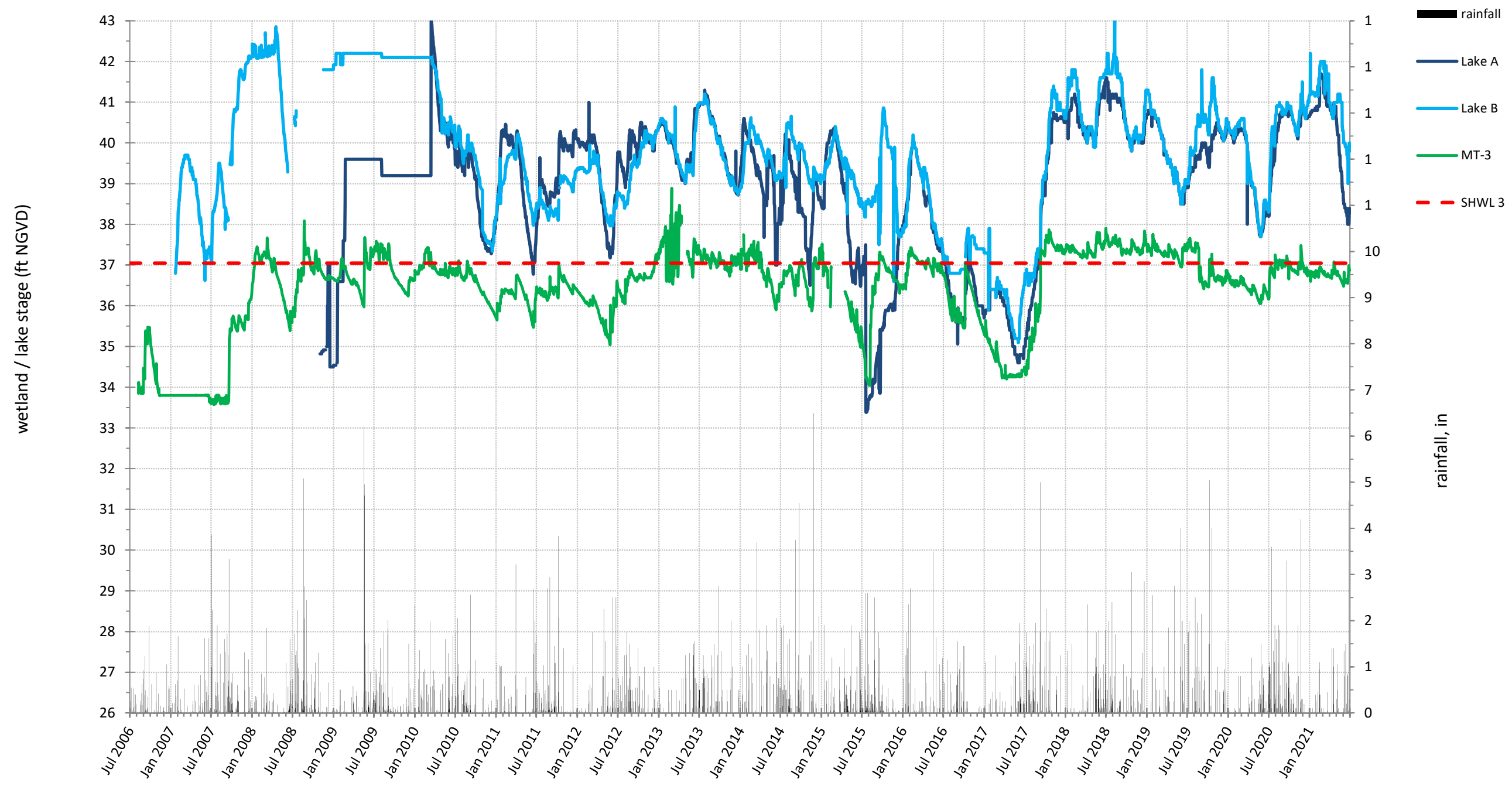
NOTE: sampling at MT-1 was discontinued on Jan 1, 2016



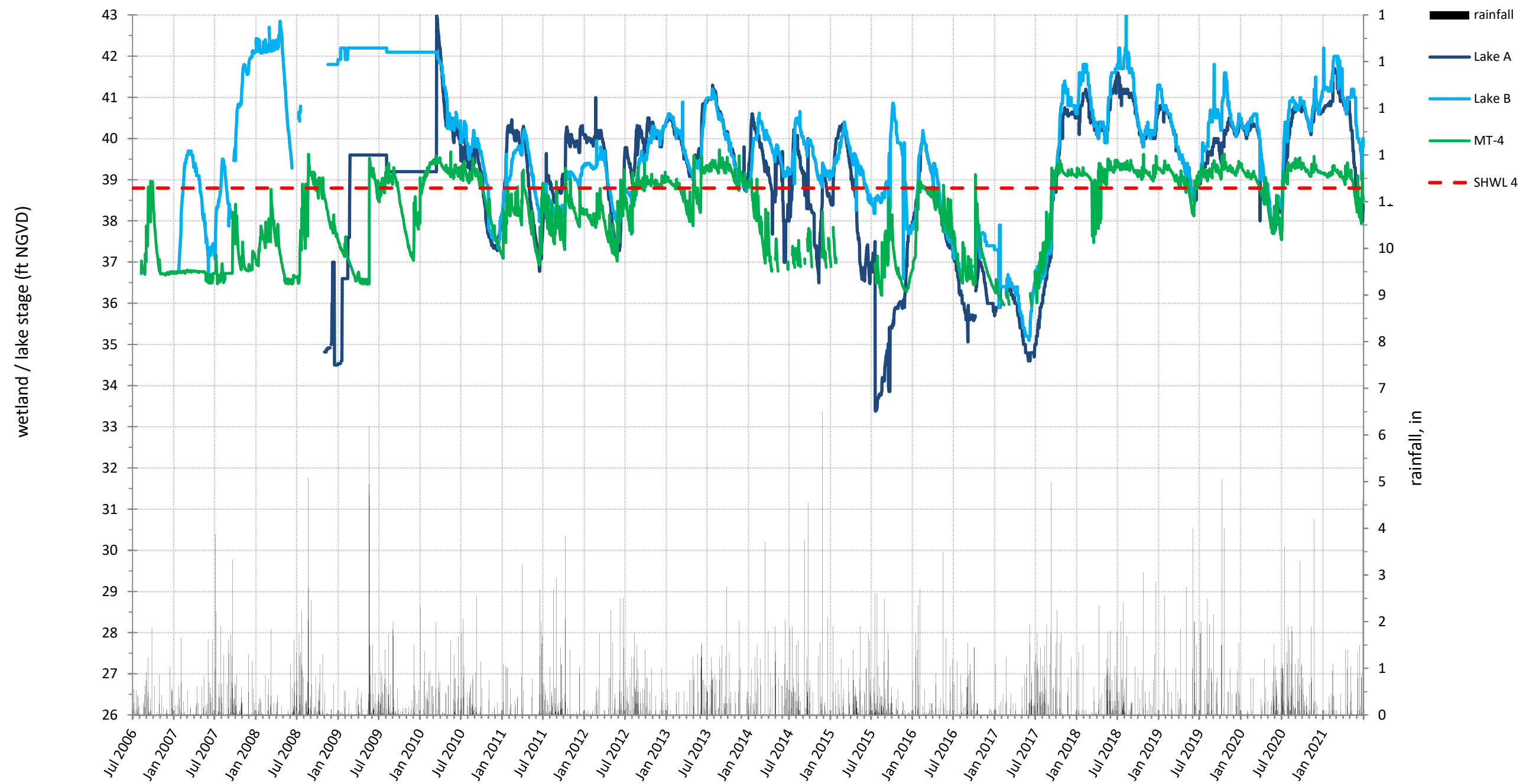
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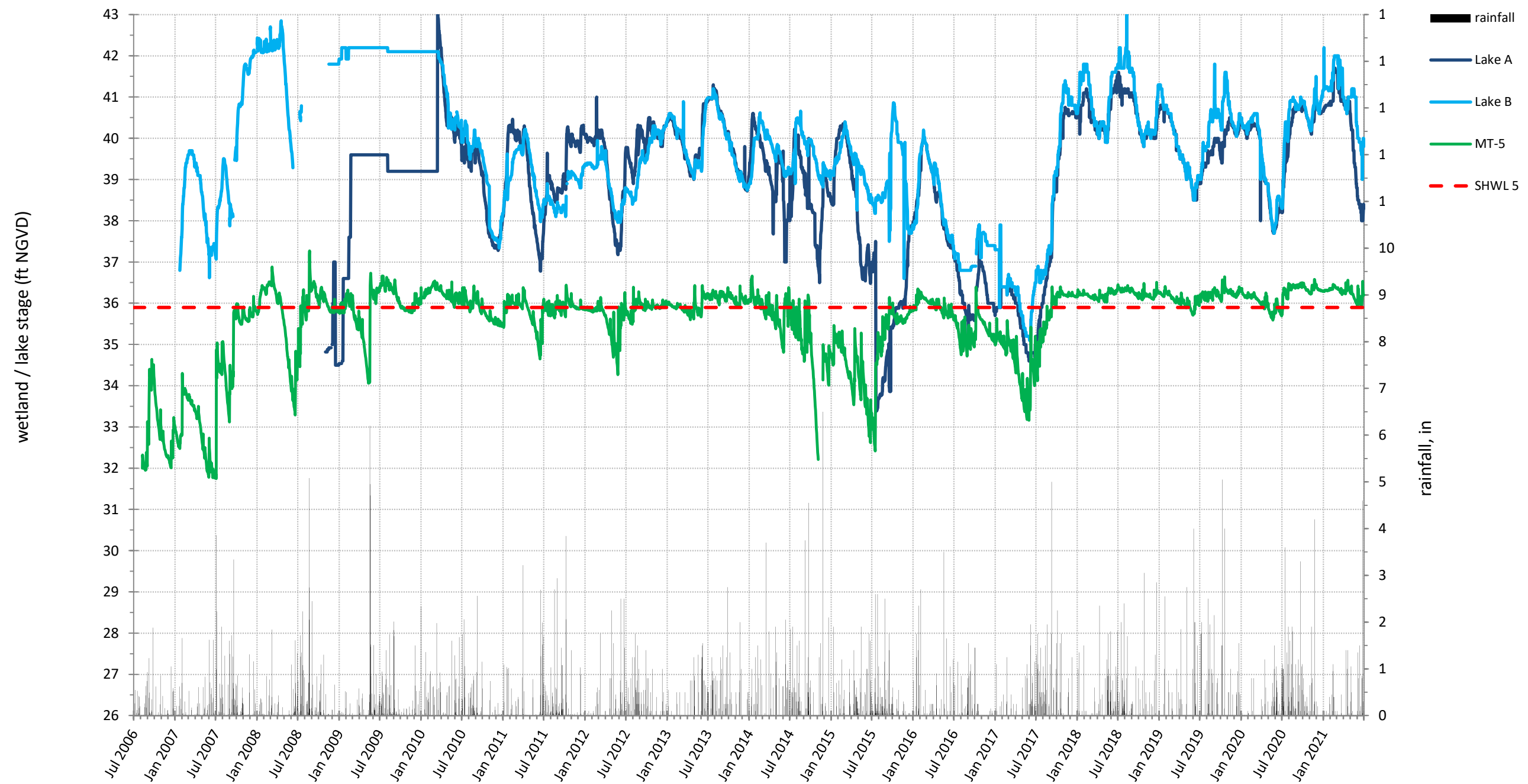
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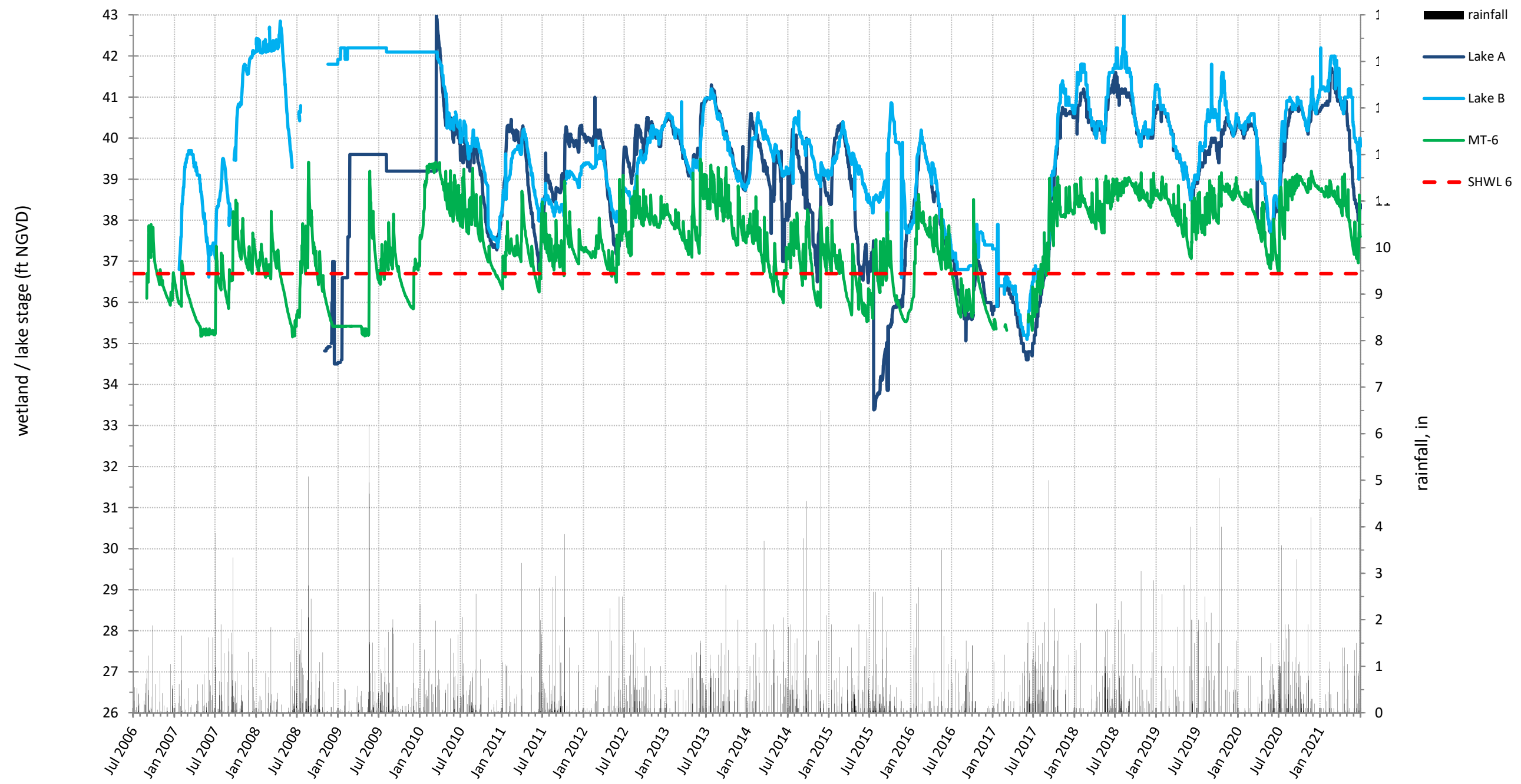
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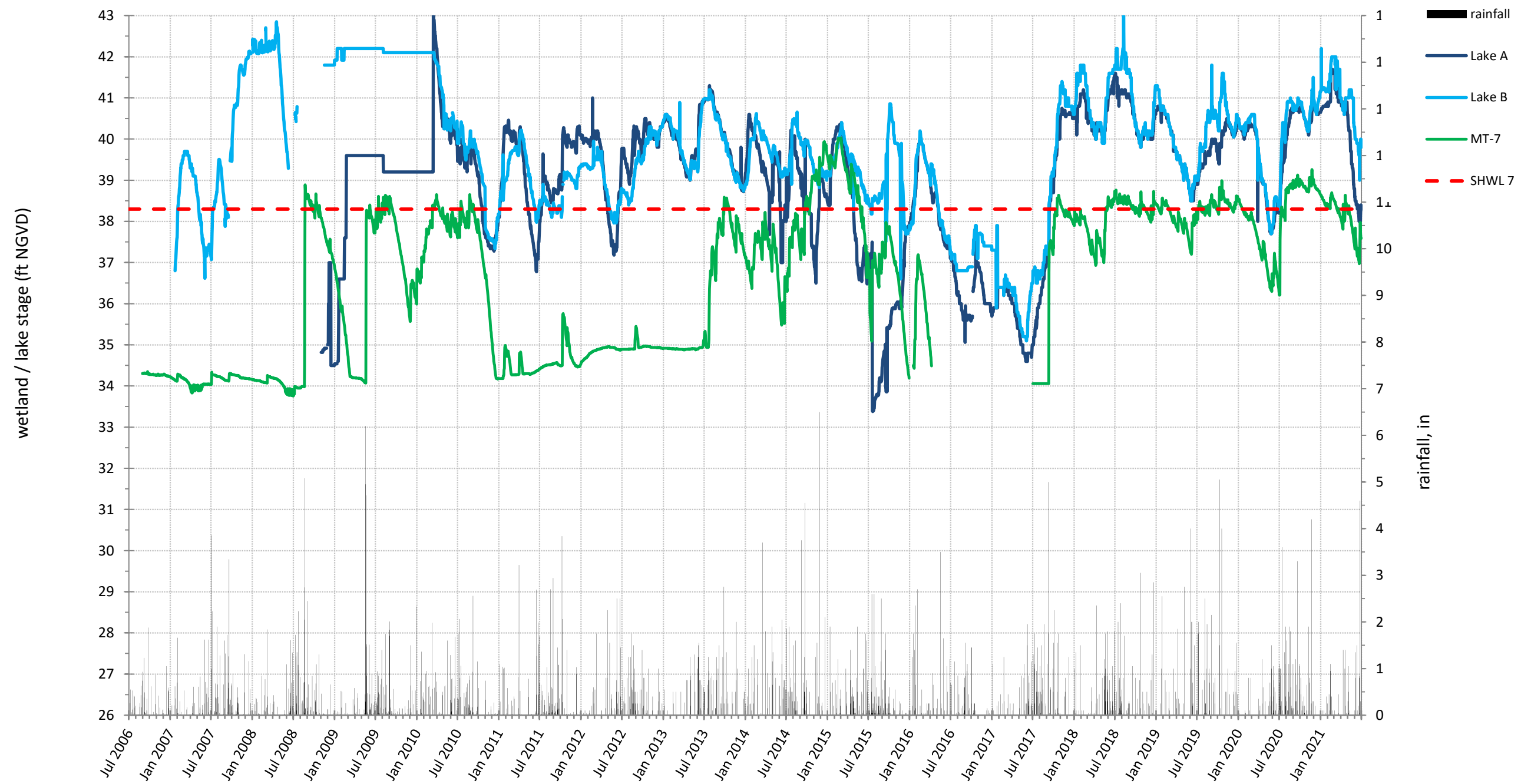
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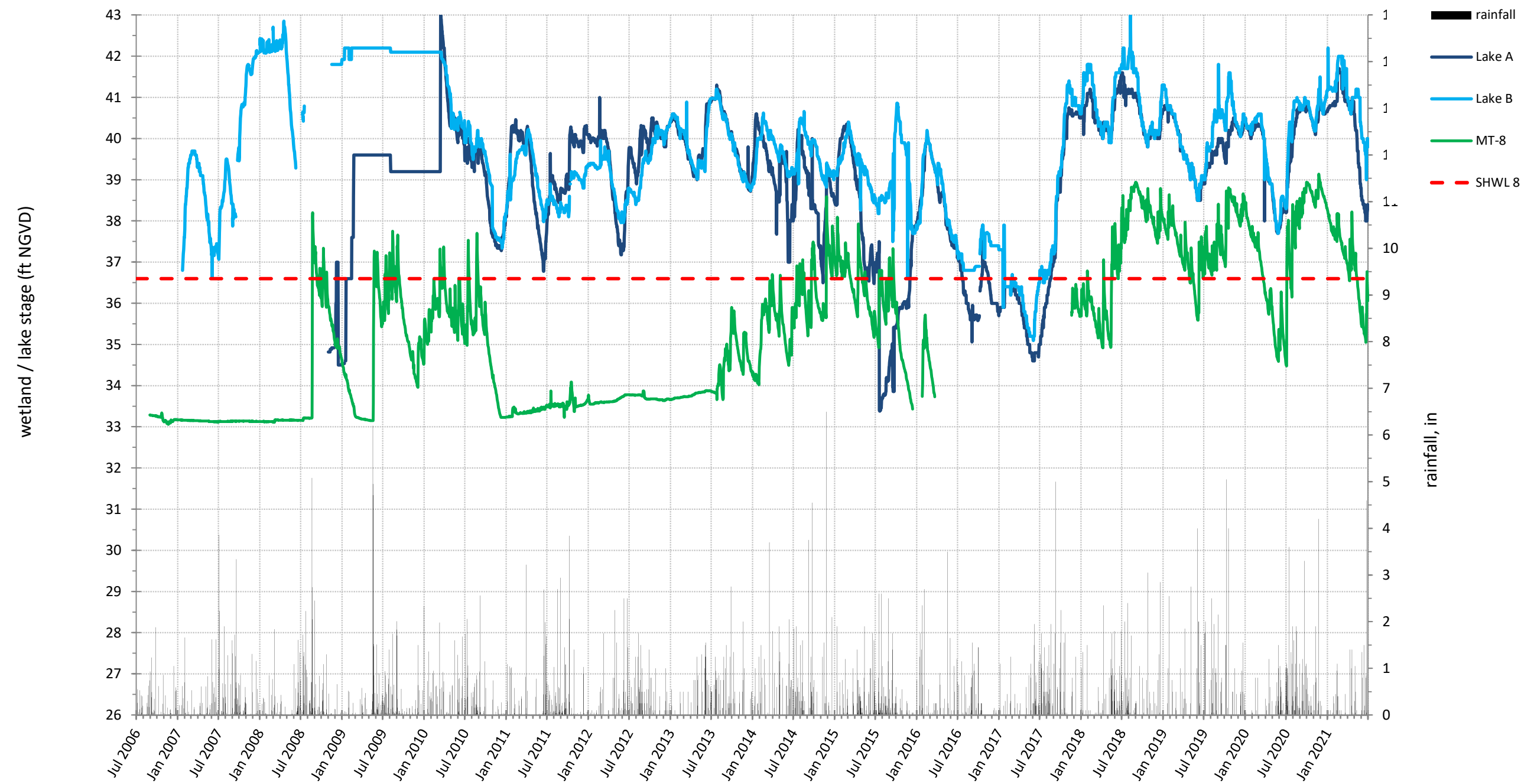
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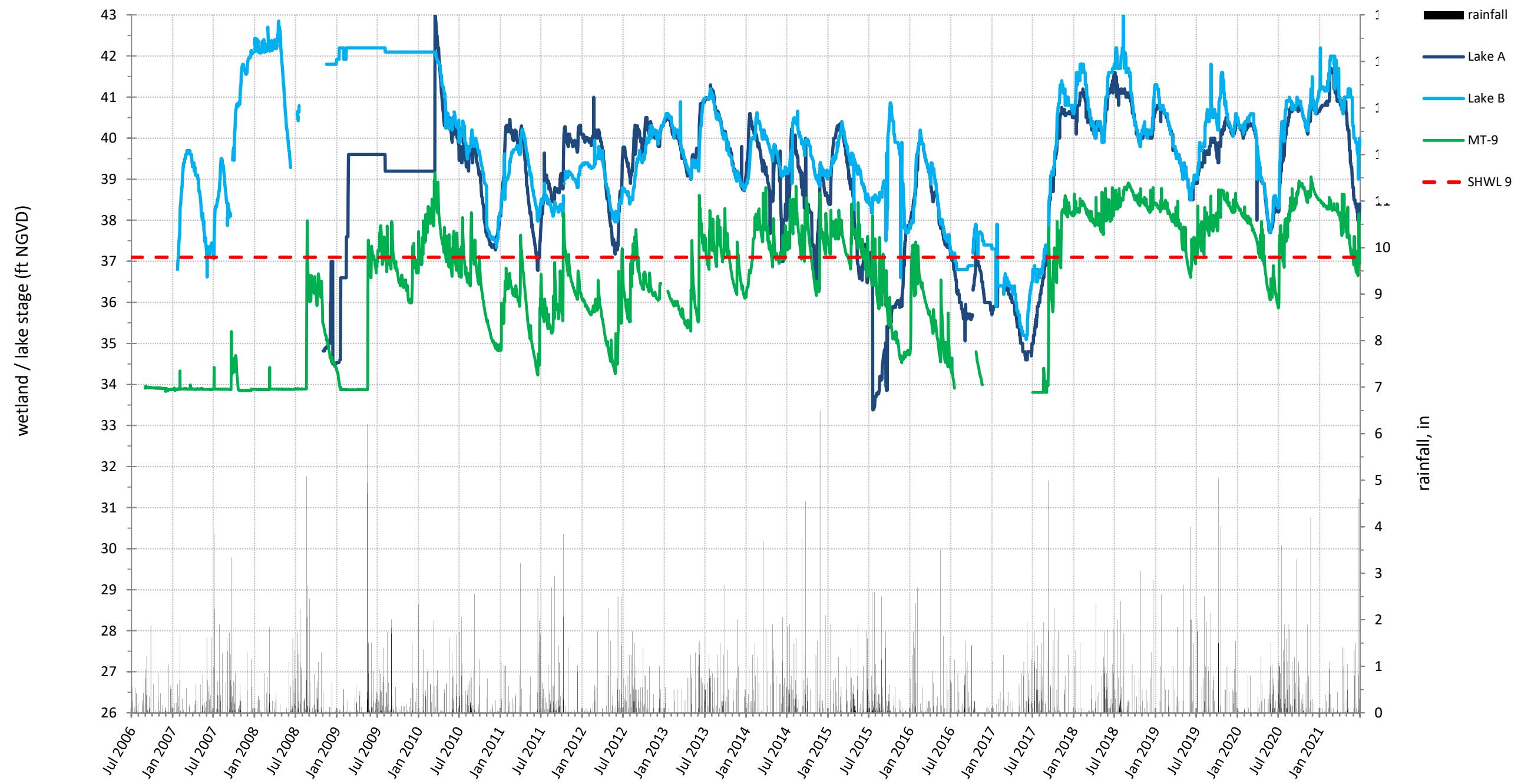
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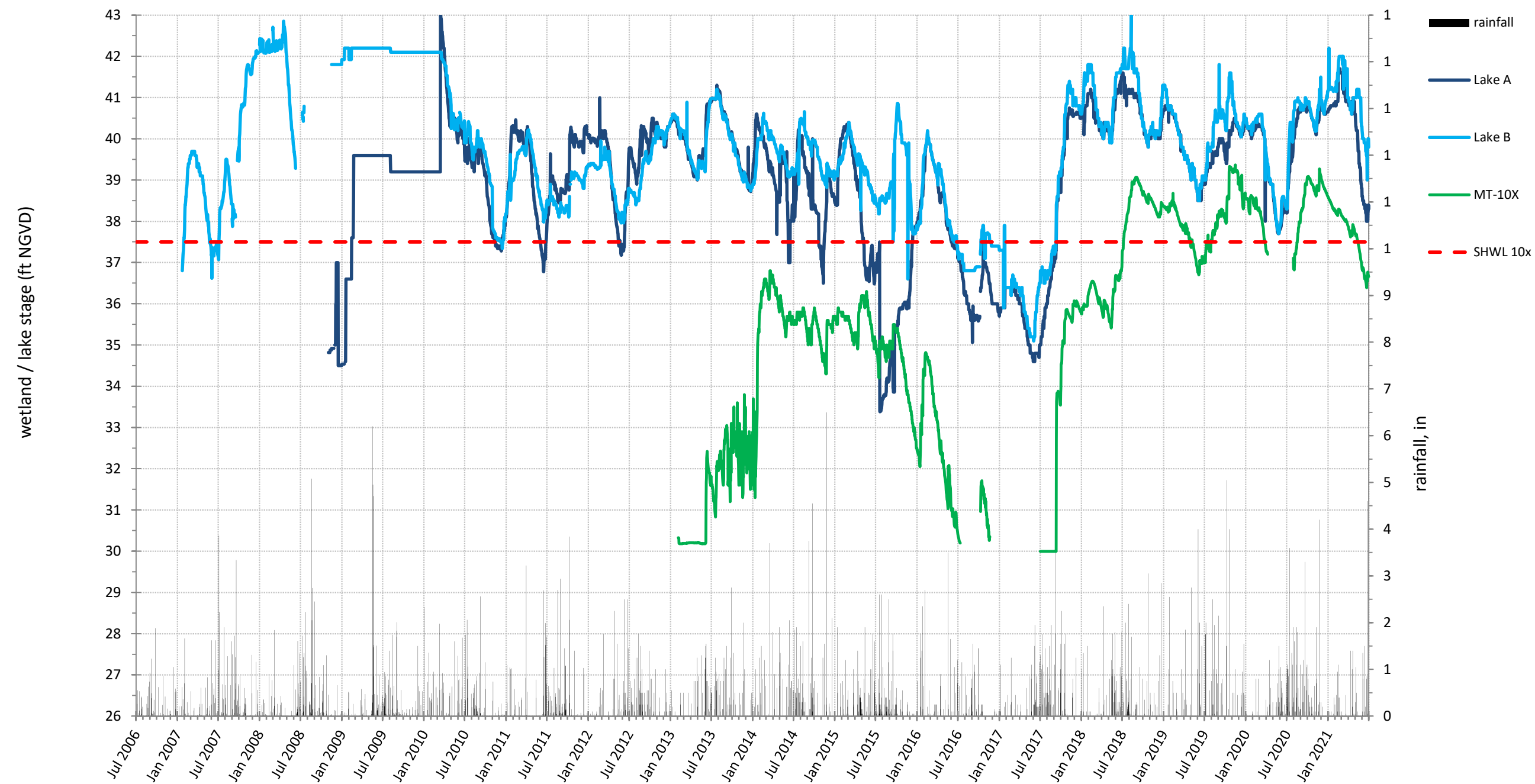
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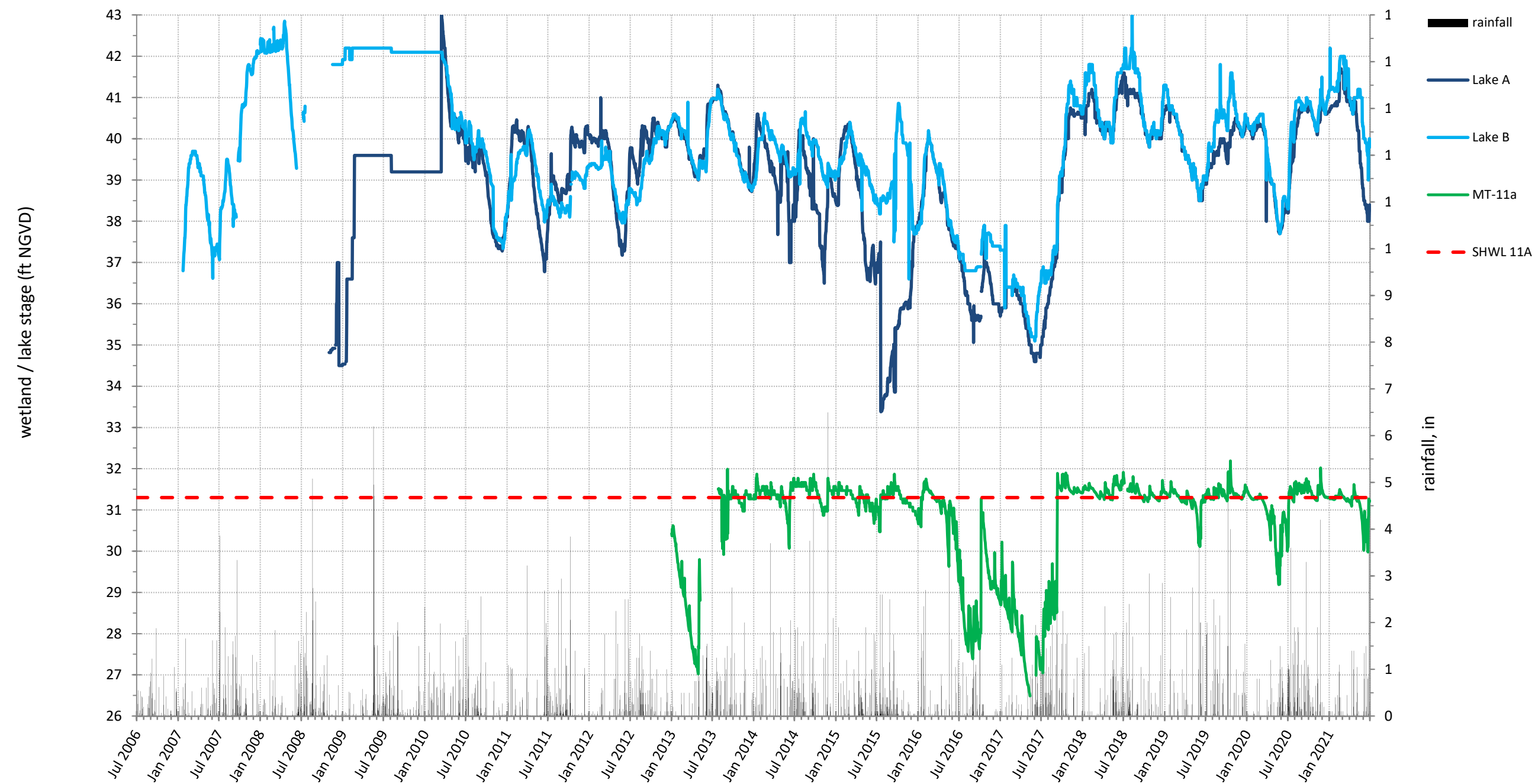
WETLAND MT- 9 WELL DATA



WETLAND MT- 10X WELL DATA



WETLAND MT- 11A WELL DATA



Appendix D – Injection Well Report (ASRus)

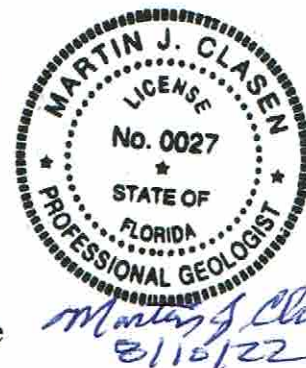


TECHNICAL MEMORANDUM

Effluent Management Alternatives Investigation for the City of Port Orange

From: Mr. Martin J. Clasen, P.G., ASRus
Mr. Mark B. McNeal, P.G., ASRus
Mr. Jeremy A. Eaton, ASRus

To: Ms. Tonya Sonier, P.E. Mead & Hunt
Ms. Lynn Stevens, Public Works Utility Director, City of Port Orange



Date: August 10, 2022

INTRODUCTION

ASRus, LLC, was retained by Mead & Hunt (M&H) to provide professional hydrogeological services for the effluent management alternatives investigation at the R. Dwayne Huffman Reclaimed Water Plant (RWP). The RWP is owned by the City of Port Orange (City) who authorized the investigation. A project location map is shown in **Exhibit 1** and a site map is shown in **Exhibit 2**. The RWP is currently permitted to discharge excess reclaimed water to the Halifax River and adjacent wetlands under Domestic Wastewater Facility (DWF) Permit FL0020559. Due to consent order (CO) OCG No. 21-0734, issued by the Florida Department of Environmental Protection (FDEP), the City is seeking an alternative means of excess effluent disposal. The alternatives investigated include the following:

- Option 1 - Construction of a moderate to high efficiency shallow Aquifer Storage Recovery (ASR) system, assumed to be completed into the Upper Floridan aquifer (UFA)
- Option 2 - Construction of a Class V, Group 3 recharge or disposal well
- Option 3 - Construction of a Class I municipal injection (disposal) well

ASRus has been asked to provide a brief evaluation and discussion for each of these options. A detailed well inventory is included in **Attachment A**, annual effluent water quality summary reports are included in **Attachment B**, and a Detailed Drilling and Testing Plan is included in **Attachment C**.

BACKGROUND

The City has demonstrated a need for disposal of excess reclaimed water as a result of population growth, wet season weather events, and the CO. The 2021 reclaimed water reuse annual average daily flow (AADF) to the RWP was 6.05 million gallons per day (MGD) while the influent AADF was 6.70 MGD, leading to discharge of excess reclaimed water exceeding the limitations of DWF permit of 1.0 MGD AADF, shown in **Exhibit 3**. The targeted flow rate for a reclaimed water ASR well, recharge well, or disposal is approximately 1-2 MGD.

REGIONAL HYDROGEOLOGY

The Paleocene age Cedar Keys Formation lies at the base of the Floridan aquifer at approximately 2,200 feet below National Geodetic Vertical Datum of 1929 (NGVD) in eastern Volusia County, according to contours drawn by Williams and Kuniansky (2016). The Cedar Keys Formation is the sub-Floridan aquifer confining unit and it primarily consists of interbedded dolomite, anhydrite and gypsum, with some limestone (O'Reilly et al., 2002). Overlying the Cedar Keys Formation is the early Eocene age Oldsmar Formation, which is composed of alternating beds of light brown to white, chalky, porous, fossiliferous limestone and porous crystalline dolomite (O'Reilly et al., 2002). The thickness of the Oldsmar Formation ranges from 400 to 700 feet thick in Volusia County (Miller, 1986).

The middle Eocene age Avon Park Formation overlies the Oldsmar Formation in Volusia County and ranges from approximately 1,000 to 1,350 feet thick (Miller, 1986). The top of the Avon Park Formation ranges from approximately 300 to 400 feet below NGVD in the eastern portion of the county (Williams and Kuniansky, 2016). The Avon Park Formation is composed of interbedded granular and fine grain limestones, dolomitic limestone and crystalline dolomite. The dolomite generally contains few fossils while the limestone is fossiliferous (Rutledge, 1985).

The late Eocene age Ocala Limestone overlies the Avon Park Formation in coastal Volusia County and ranges from approximately 50 to 100 feet below NGVD (Williams and Kuniansky, 2016). The Ocala Limestone has a thickness up to 200 feet in Volusia County (Miller, 1986). The Ocala Limestone is composed of fossiliferous cream to white limestone mottled with gray zones and can have portions that are slightly dolomitized in coastal Volusia County (Rutledge, 1985).

The Oligocene age Suwannee Limestone is absent in most of Volusia County due to high amounts of erosion. Where present, the Suwannee Limestone is relatively thin and is generally composed of hard and soft beds of white, tan or cream-colored limestone that is dolomitic and coquinoïd in part (Clark, 1964). The Suwannee Limestone is characterized by cone shaped foraminifera and the echinoid *Rhyncholampus Gouldii* (Frost, 1985).

The Miocene age Hawthorn Group unconformably overlies the Suwannee Limestone and the Ocala Limestone and ranges in thickness from approximately 50 to 100 feet in Volusia County (Miller, 1986). The top of the Hawthorn Group is approximately 0 feet NGVD in coastal Volusia County (Williams and Kuniansky, 2016). The Hawthorn Group contains clay, quartz sand, clayey sand, sandy clay, phosphatic grains and pebbles and soft to very hard limestone or dolomitic limestone. It most commonly occurs as a greenish clay containing varied amounts of sand and phosphate or a phosphatic, sandy, somewhat dolomitic limestone (Frost, 1985).

The Miocene and Pliocene deposits overly the Hawthorn Group and consist of unconsolidated beds of fine sand, shells, and calcareous silty clays. The overall thickness of the Miocene or Pliocene deposits in Volusia County is generally 20 to 70 feet (Rutledge, 1985).

The sedimentary deposits described here form the multi-layered aquifer system present in the study area, consisting of the surficial aquifer system (SAS), intermediate confining unit (ICU), upper Floridan aquifer (UFA), middle semi-confining unit (MSCU) and lower Floridan aquifer (LFA). The deposits overlying the Hawthorn Group make up the surficial aquifer, while the Hawthorn Group makes up the ICU, serving as a confining layer that restricts vertical movement of water between the SAS and UFA. The UFA generally consists of the Ocala Limestone and the upper one-third of the Avon Park Formation, often with two distinct zones of permeability, Zone A and Zone B. This portion of the Avon Park Formation is the major source of water in the UFA. The MSCU is a zone of the Avon Park Formation with softer, less permeable limestone and dolomite that separates the UFA and the LFA. In some places the MSCU is considered semi-confining. The LFA underlies the MSCU and consists of the lower part of the Avon Park Formation, the Oldsmar Formation and the upper part of the Cedar Keys Formation. The LFA typically has a lower transmissivity and significantly higher salinity than the UFA. The potentiometric surface of the LFA slopes downward towards the Atlantic coast in eastern Volusia County (O'Reilly et al., 2002).

SITE HYDROGEOLOGY

The RWP site is located in Volusia County approximately three miles east of I-95 and 5.3 miles south of US Route 92 as shown in **Exhibit 1**. A cross section was constructed using available well data near the RWP. The site is located within the Eastern Valley physiographic province between the Atlantic Coastal Ridge and Atlantic Beach Ridges with elevations generally under 10 feet above sea level. The site geomorphology is displayed on **Exhibit 4** (White, 1970, Williams, 1997). The generalized regional geology and hydrogeology is shown in **Exhibit 5** (O'Reilly et al., 2002). The cross-section location map is shown in **Exhibit 6**. Cross-section A-A' is shown in **Exhibit 7**. The hydrogeologic areas of interest in this investigation include the Ocala Limestone and permeable units of the Avon Park Formation and Oldsmar Formation. **Exhibit 7** shows the UFA occurs from 65 feet to 445 feet below NGVD. The upper permeable zone of the LFA occurs from approximately 690 feet to 920 feet below NGVD.

Based on permeable zones shown on **Exhibit 7**, the targeted zones for well construction include Zone B of the UFA from 330 to 445 feet below NGVD for reclaimed water ASR and for aquifer recharge, assuming the water quality in this zone is suitable. The upper and middle permeable zones of the LFA from 690 feet to 1,400 feet below NGVD should be suitable for a Class I DIW or Class V disposal well. In order to define the targeted zones in the LFA at the site, an exploratory well should be drilled to approximately 1,400 feet below NGVD. The Florida Department of Environmental Protection (FDEP) defines the base of an Underground Source of Drinking Water (USDW) as 10,000 milligrams per liter (mg/L) total dissolved solids (TDS) concentration in the groundwater. The base of the USDW is estimated from the United States Geological Survey (USGS) at -400 feet NGVD at the site, as shown in **Exhibit 8**. Based on the limited hydrogeologic data near the site, our estimated depth to the base of the USDW is -500 feet NGVD as shown in **Exhibit 7**. The exact depth to the base of the USDW is unknown at the site and would require a test well to confirm this depth.

WELL INVENTORY RESULTS

A well inventory was conducted using a 1-mile radius area of review (AOR) from the property boundary of the RWP. The results showed that all permitted wells are completed within the UFA with depths ranging from 42 to 300 feet. Four wells were identified with depths greater than 300 feet from the well inventory. An irrigation well was identified within the St. Johns River Water Management District's (SJRWMD) well completion report (WCR) database with a depth of 910 feet. Upon review it appears that the well depth was recorded incorrectly in the database, the scanned copy of the WCR notes a total well depth of 110 feet. A second irrigation well was identified within the SJRWMD WCR database with a depth of 460 feet. Upon review it appears that the well depth was recorded incorrectly in the database, the scanned copy of the WCR notes a total well depth of 190 feet. Two wells were identified in the Florida Geological Survey (FGS) database with depths of 462 feet and 385 feet, both wells are SJRWMD monitoring well V-1165. Upon review of the SJRWMD monitoring network database and the SJRWMD WCR database, it appears the well was drilled to 460 feet before being back plugged with a final open hole from 190 feet to 246 feet. No existing users are expected to be impacted by constructing Options 1 through 3 described in this technical memorandum. Details of the well inventory are included in **Attachment A**.

RECLAIMED WATER QUALITY

Annual reclaimed water quality reports and summaries for 2019 through 2021 from the RWP are included in **Attachment B**. The annual sampling consists of state primary and secondary drinking water standard (DWS), excluding asbestos, total coliform, color, odor, and residual disinfectants.

The RWP does not currently meet the disinfectant byproduct (DBP) standard for Total Trihalomethanes (TTHM). If the RWP cannot meet DBP standards, the treatment method for water discharged to groundwater can be changed to chloramines which will reduce the amount of DBPs in the discharge. However, since chloramine disinfection requires the addition of ammonia, this disinfection strategy would require further evaluation for water discharged to surface waters. Likewise, reclaimed water from the RWP consistently contains total nitrogen (TN) concentrations above or just below the primary DWS of 10 mg/L average. Primary DWS for DPB and TN will need to be met unless a suitable injection zone with TDS concentrations greater than 10,000 mg/L is targeted, below the base of the lowermost USDW.

High concentration of TSS in recharge water can lead to “plugging” during injection, causing a loss of injection capacity over time. High TSS in discharge water to the adjacent wetlands is believed to be from biological processes in the two retention lakes prior to discharging to the wetlands (Mead & Hunt, 2021). Reclaimed water TSS concentrations do not appear to be an issue from the reclaimed water system. Monthly average fecal coliform in the reclaimed water is consistently below the surface water discharge standard of 4 cfu/100mL.

Option 1 – Construct ASR System, assumed to be completed into the UFA

The FDEP effluent treatment requirements for discharge to aquifers with TDS greater than 10,000 mg/L TDS greater than 3,000 mg/L TDS, and greater than 1,000 mg/L TDS are summarized in **Table 1**. The targeted TDS concentration of the receiving aquifer for a reclaimed

water ASR well is 3,000 to 5,000 mg/L. Because of the brackish water in the UFA in the RWP area, the UFA reclaimed water ASR system option may be feasible. However, water quality data obtained during this investigation are not conclusive and water quality characterization of groundwater at the RWP site will need to be confirmed during test well construction.

Treatment requirements to inject into an aquifer with less than 1,000 mg/L TDS concentrations would make this option cost prohibitive. However, data obtained from the SJRWMD indicate that the UFA in the vicinity of the RWP may contain TDS concentrations ranging from 2,000 to 3,000 mg/L, based on the SJRWMD monitoring well network. Specifically, monitor well V-1165, located 0.7 miles south of the RWP, has demonstrated the UFA is brackish in the vicinity. Data obtained from the construction of Ormond Beach ASR exploratory well (12 miles northeast of the RWP), the SJRWMD, and USGS indicate that the USDW will likely lie within the MSCU at the RWP. The estimated depth to the top of the MSCU is 400 feet below NGVD. Estimated depths of the USDW in the vicinity of the RWP site and hydrostratigraphy based on locations of pertinent wells used for analysis is shown on **Exhibit 9**.

Option 1 could serve as a viable mechanism for excess reclaimed water storage. The receiving zone would need to have moderate transmissivity and moderately brackish TDS concentrations. Based on the data collected Zone B of the UFA, as described by O'Reilly (2002) and displayed on **Exhibit 9**, Zone B should contain TDS concentrations of greater than 3,000 mg/L. However, well data gathered in this investigation indicate Zone B of the UFA may have a transmissivity too high for storage, leading to low recovery efficiency. In addition, dissolved oxygen (DO) concentration from the RWP reported in the monthly discharge monitoring reports (DMR), are generally 7 mg/L. DO concentrations of this magnitude will likely mobilize naturally occurring arsenic in the formation. Arsenic tends to attenuate quickly near the wellhead and a zone of discharge (ZOD) could be used to assure no adverse effects to existing water users. However, FDEP has been reluctant to allow such regulatory mechanisms for primary drinking water standards such as arsenic. The City is currently pilot testing a sodium bisulfate system to lower biologically driven TSS concentrations in discharge water to the adjacent wetlands. A similar system could be implemented to lower DO concentrations and reduce the risk of arsenic mobilization. However, the use of sodium bisulfate for this purpose would incur more cost to the City and likely be needed in perpetuity.

The planning level costs for an ASR well system completed in the targeted zone of 350 to 450 feet are estimated at \$5,800,000. The estimated schedule to complete permitting, design, bidding, and construction is 36 months. Planning level cost estimates are shown in **Exhibit 10**. The ASR well system including a storage zone monitoring well (SZMW-1) and a shallow monitoring well (SMW-1) are shown in **Exhibit 9**.

Table 1

Water Quality Criteria for Class V Injection Wells

Background Storage Zone Concentration	FDEP Reclaimed Water Injection Criteria
<1,000 mg/L	Full Treatment and Disinfection Requirements -State Primary and Secondary DWSs -TOC and TOX Limits -Possibly other Health Based Criteria
1000 mg/L  3,000 mg/L	Principal Treatment and Disinfection Requirements Proposed Storage Zone is not a source of public water supply nor is it expected to become one State Primary DWSs minus Na; total nitrogen, and fecal coliform compliance is at the wellhead State Secondary DWSs plus Na or background storage zone water quality, (whichever is poorer) Compliance is at boundary of Zone of Discharge
3,000 mg/L  10,000 mg/L	Principal Treatment and Disinfection Requirements State Primary DWSs minus Na; total nitrogen, and fecal coliform compliance is at the wellhead State Secondary DWSs plus Na or background storage zone water quality, (whichever is poorer) Compliance is at boundary of Zone of Discharge
>10,000	Meet pre-application treatment and disinfection criteria before or after storage

Option 2 – Construction of a Class V Aquifer Recharge Well

Option 2 would provide a Class V Aquifer Recharge (AR) well. Class V Group 3 aquifer recharge well could be permitted if a suitable zone where $> 3,000$ mg/L TDS is defined. As discussed in Option 1 it is anticipated that brackish groundwater will likely lie within Zone B at the RWP. The excess reclaimed water would be disposed of in the UFA without the option of recovering this water. The proposed AR well system is shown in **Exhibit 9**.

The disadvantage to this option compared to the ASR option above is that none of this recharge water would be recovered to supplement the reuse system. However, the main use of the well is disposal of excess reclaimed water. As discussed above, the influent to the RWP regularly exceeds the reuse demand, on average by 0.6 MGD AADF since 2019.

The planning level costs for an Aquifer Recharge well in the UFA (targeted zone of 350 feet to 450 feet below NGVD) are estimated at approximately \$4,700,000. The estimated schedule for completing permitting, design, bidding, and construction is approximately two to three years. However, the limited number of qualified contractors with relevant construction experience for underground injection is a growing concern and may lengthen construction timelines. **Exhibit 9** shows the AR well construction diagram along with required monitoring wells.

Option 3 – Construction of a Class I Municipal Deep Injection Well

This option would provide a reliable disposal option for excess reclaimed water. A Class I deep injection well (DIW) system requires that a suitable injection zone is available with TDS concentrations greater than 10,000 mg/L. Based on the results of monitor well V-0817, approximately 9 miles northwest of the RWP a permeable zone within the LFA below the MSCU may exist at the RWP (SJRWMD Program No. 31-58200. Based on data obtained from the SJRWMD and USGS it is expected that this zone at the RWP will contain $> 10,000$ mg/L TDS concentrations (Williams and Kuniansky, 2016, O'Reilly et al., 2002). A well would be drilled to approximately 1,400 feet to completely define the top two LFA permeable zones. Given the data collected for this report and the proximity of the RWP to the coast it is very likely that an adequate injection zone will be found. This option would solve the problem of excess reclaimed water being discharged to the Halifax River. The proposed DIW well system is shown in **Exhibit 11**.

The advantage of pursuing this option is that the treatment standards are less than the previous two options. While primary drinking water standards, and potentially secondary drinking water standards, must be met in the ASR and aquifer recharge options, the deep injection well option would only require water that meets high level disinfection before discharge to the injection well. Long-term compliance with this UIC option is considered to be most favorable among the three options evaluated.

This is the most expensive option but would provide reliable disposal with less stringent treatment requirements. The costs for a new Class I DIW system are estimated at \$8,000,000. A 14-inch diameter DIW could provide up to 2.26 MGD of capacity based on 10 ft/sec, assuming the zone is moderately permeable. The targeted zone for a new Class I injection well is from approximately 700 feet to 1,500 feet below NGVD. The estimated schedule for completing permitting, design, bidding, and construction is 2.5 to 3 years.

SUMMARY AND RECOMMENDATIONS

In summary, three options were evaluated for the RWP to address influent flows that currently exceed reuse demand and compliance with the CO. After evaluating the three alternatives, ASRus recommends that Option 3, a Class I municipal DIW be pursued. A DIW should be drilled at the RWP site to a depth of approximately 1,400 feet open to the first two permeable zones within the LFA. Because of the uncertainty of water quality and permeability in the UFA, Options 1 and 2 should not be considered at this time. Hydrogeologic data should be collected during installation of the deep injection well throughout the upper Floridan aquifer to allow design and construction of an ASR or aquifer recharge well in the future if favorable hydrogeologic conditions are encountered to support the injection well should additional redundancy or disposal capacity is needed in the future.

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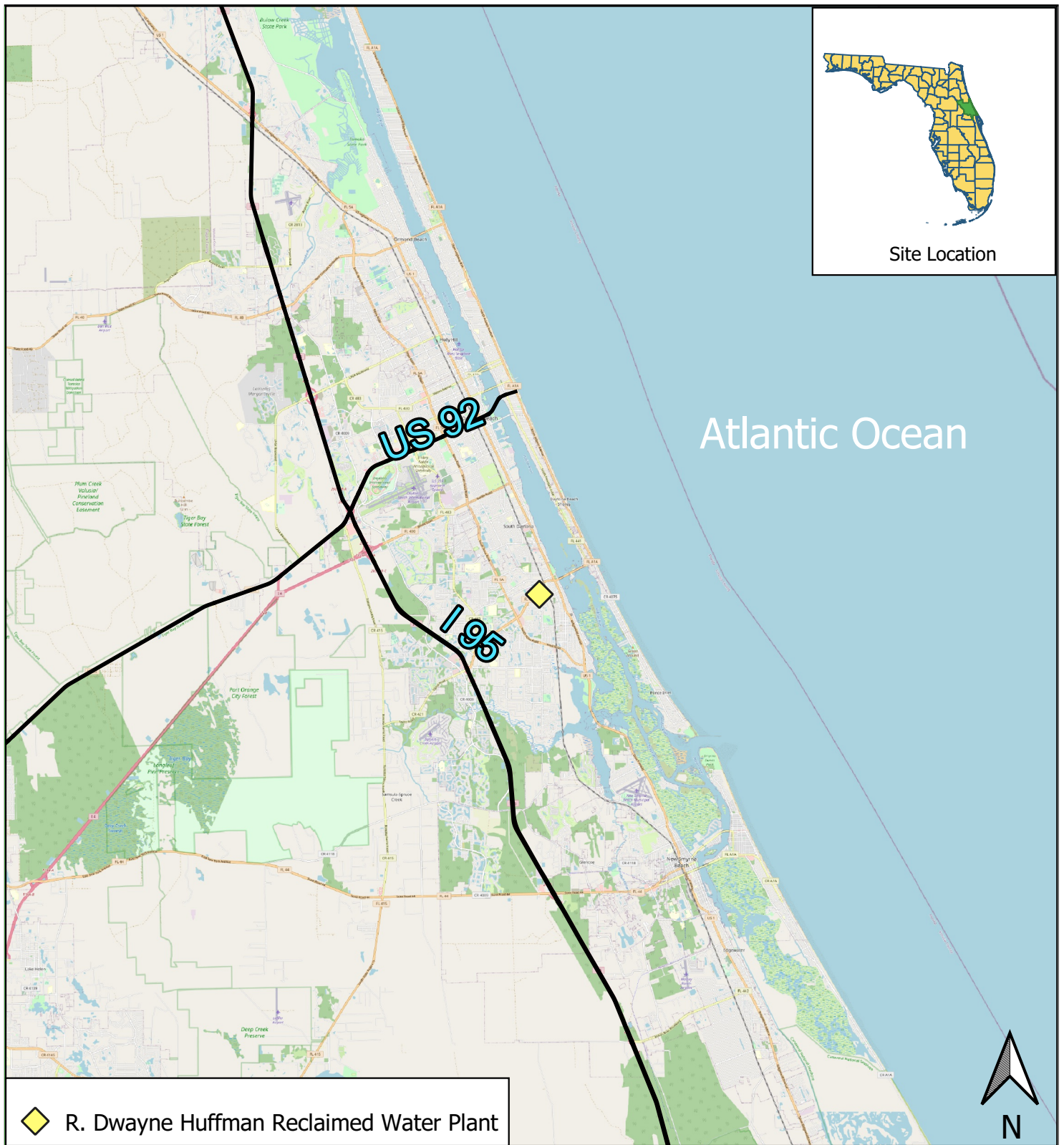
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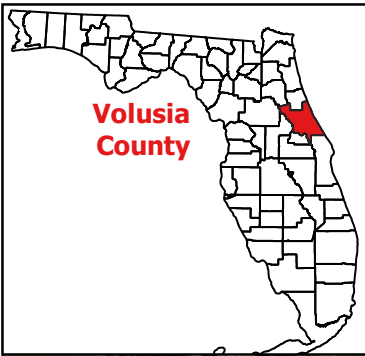
Wyrick, G. *The Groundwater Resources of Volusia County, Florida Report of Investigations No. 22*. Tallahassee, FL: Florida Geological Survey, 1960.

EXHIBITS



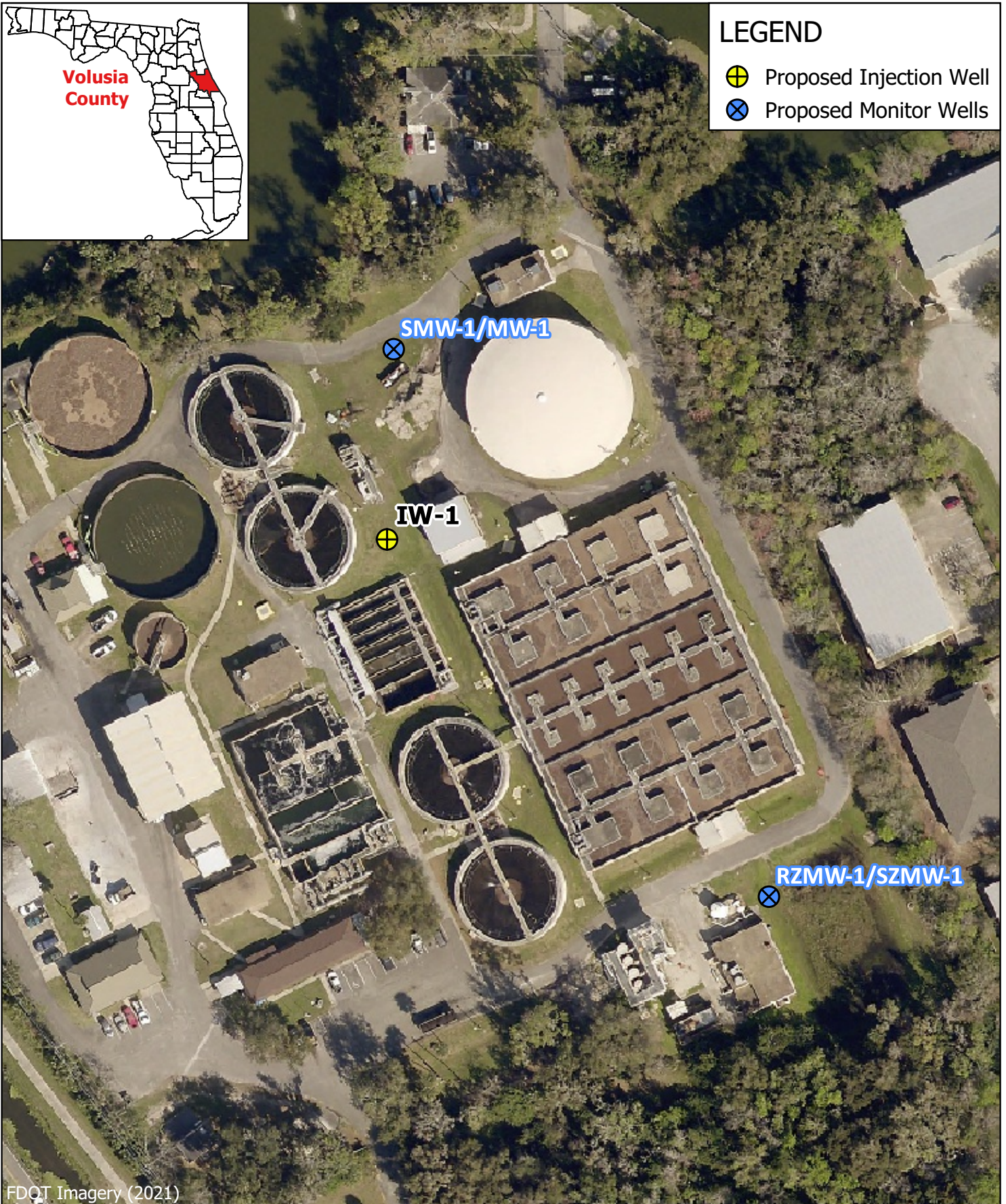
R. Dwayne Huffman RWP Location Map

Exhibit 1 Project Location Map

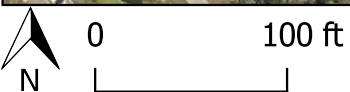


LEGEND

- Proposed Injection Well
- Proposed Monitor Wells



FDOT Imagery (2021)



Revised 6/15/2022

R. Dwayne Huffman RWP



Exhibit 2 Site Map

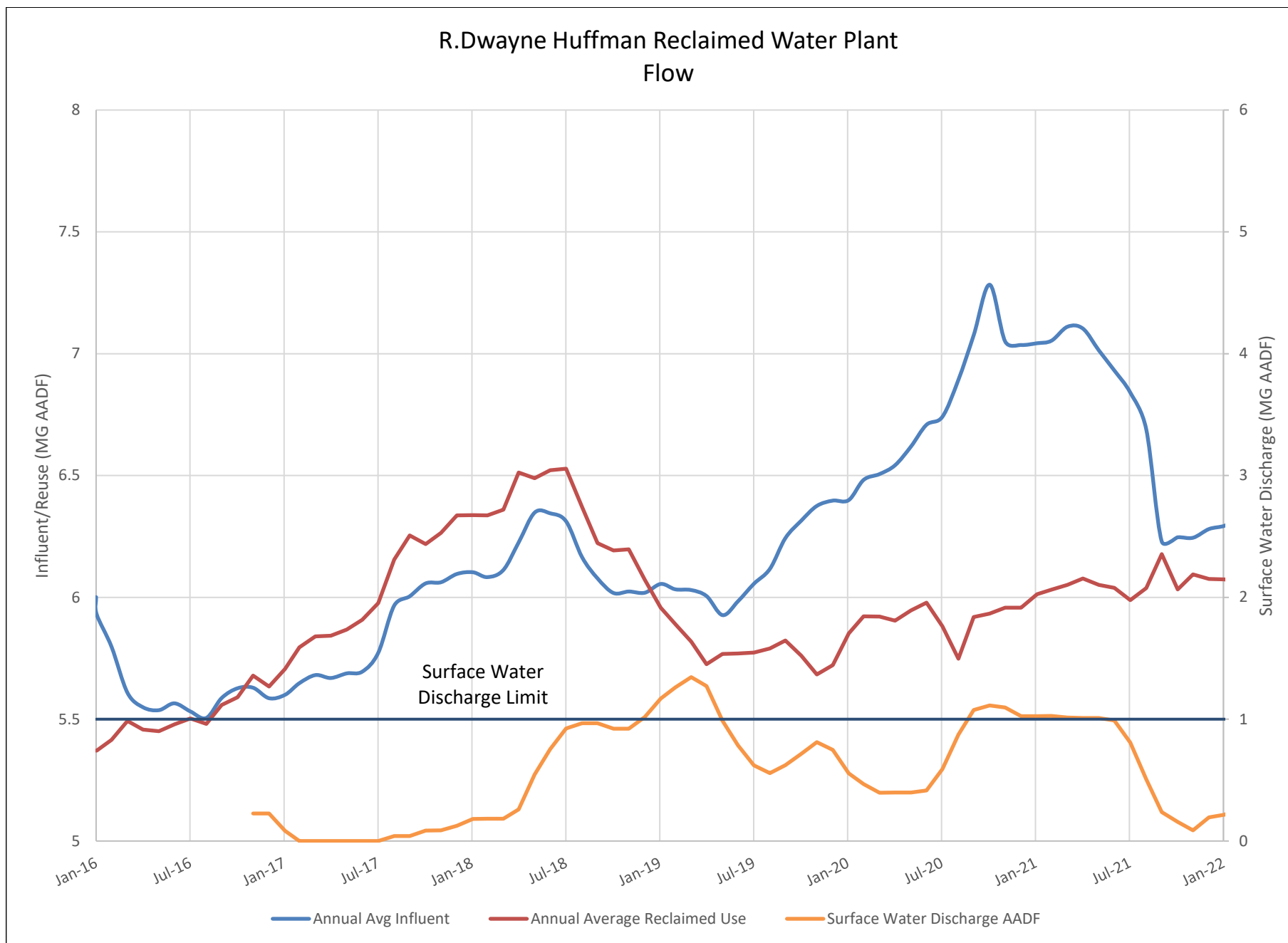
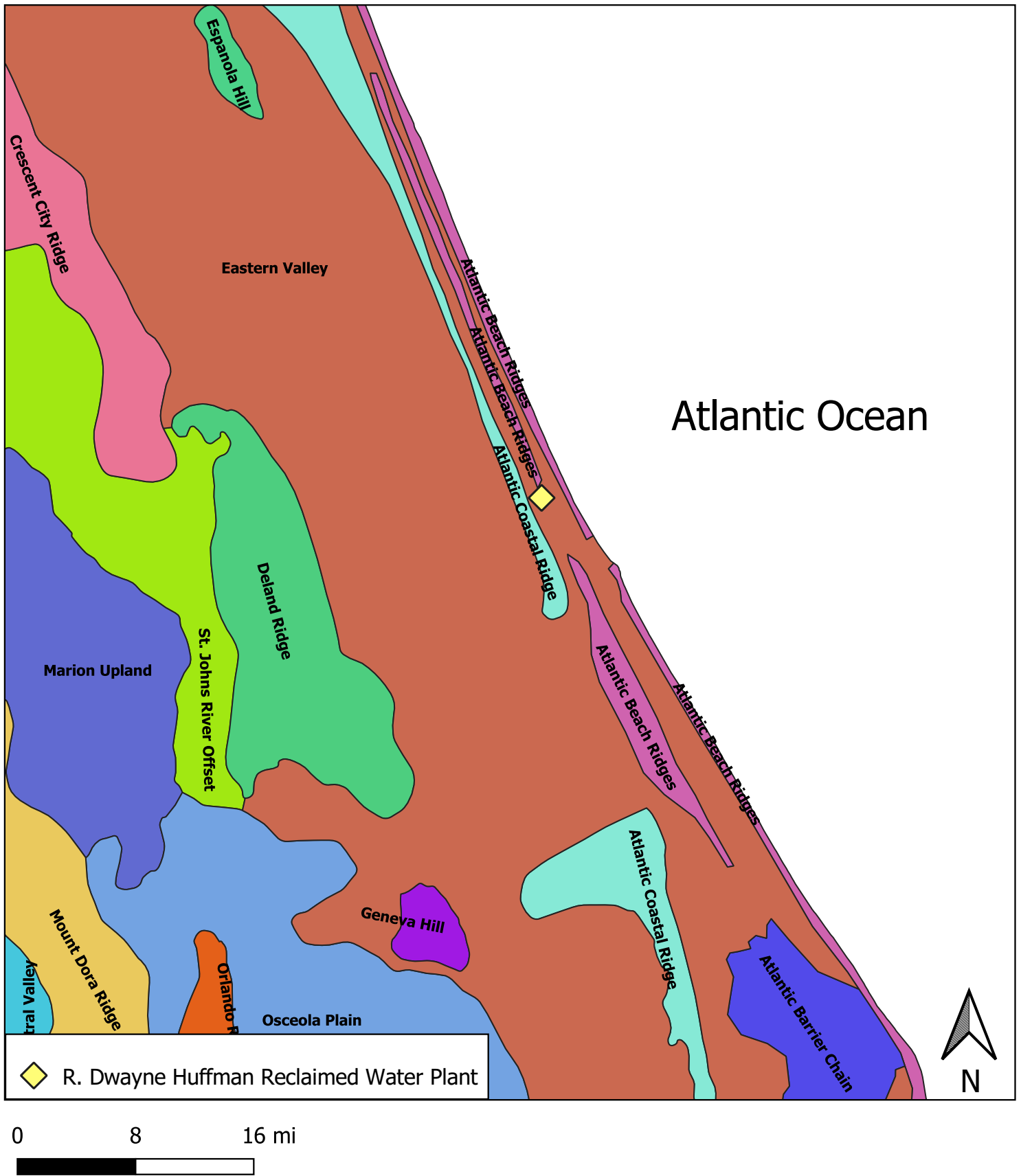


Exhibit 3 Reclaimed Water Flows



R. Dwayne Huffman RWP Site Geomorphology

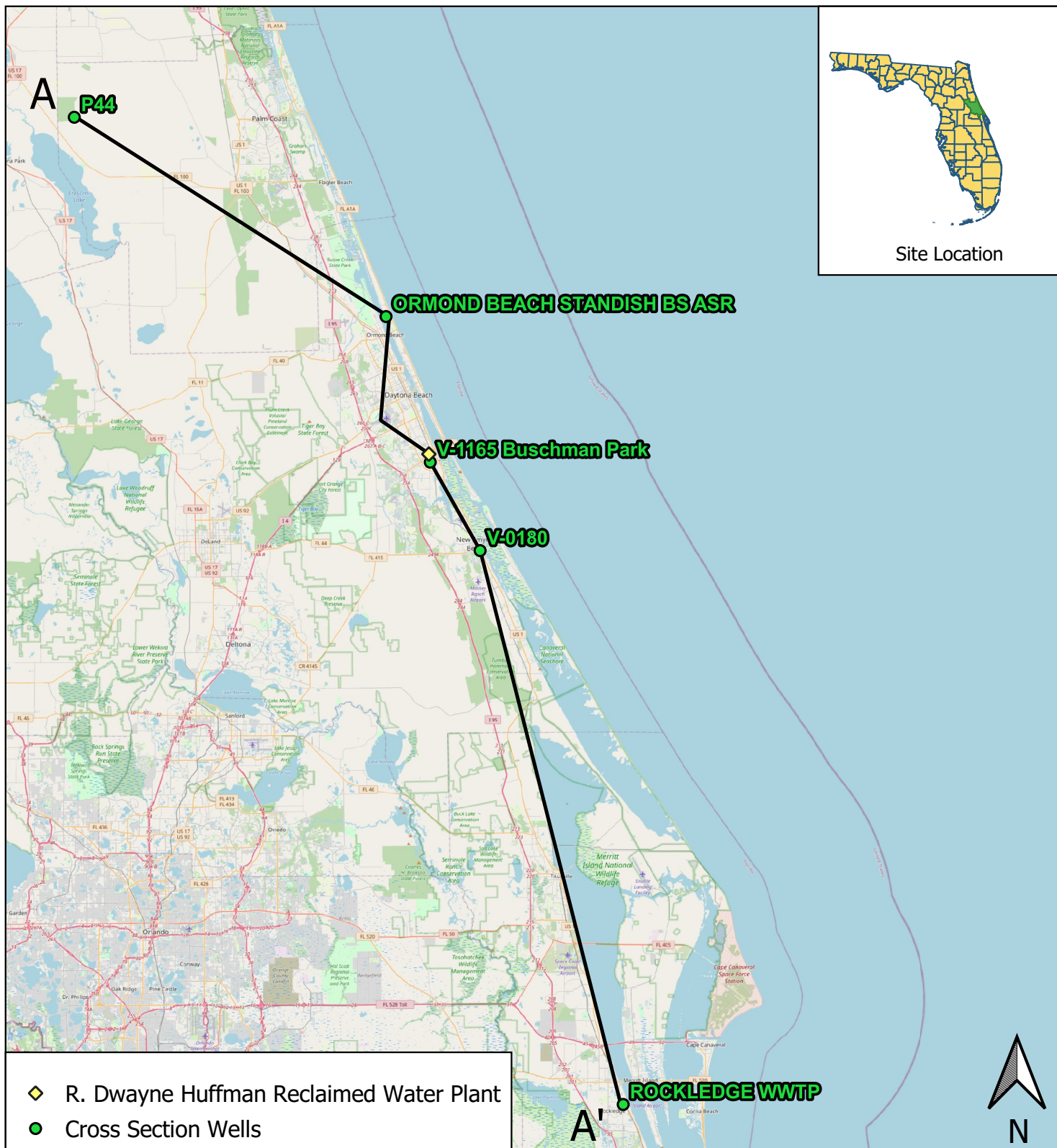
Exhibit 4

SERIES		STRATIGRAPHIC UNIT	LITHOLOGY	HYDROGEOLOGIC UNIT		
Holocene		Undifferentiated deposits	Alluvium, freshwater marl, peats and muds in stream and lake bottoms. Also, some dunes and other windblown sand.	Surficial aquifer system		
Pleistocene			Mostly quartz sand. Locally may contain deposits of shell and thin beds of clay.			
Pliocene			Interbedded deposits of sand, shell fragments, and sandy clay; base may contain phosphatic clay.			
Miocene		Hawthorn Group	Interbedded quartz, sand, silt and clay, often phosphatic; phosphatic limestone often found at base of formation.	Intermediate confining unit		
Eocene	Upper	Ocala Limestone	Cream to tan, soft to hard, granular, porous, foraminiferal limestone.	Floridan aquifer system	Upper Floridan aquifer	
	Middle	Avon Park Formation	Light brown to brown, soft to hard, porous to dense, granular to chalky, fossiliferous limestone and brown, crystalline dolomite; intergranular gypsum and anhydrite.		Middle semiconfining unit	Middle confining unit
	Lower	Oldsmar Formation	Alternating beds of light brown to white, chalky, porous, fossiliferous limestone and porous crystalline dolomite.		Lower Floridan aquifer	
Paleocene		Cedar Keys Formation	Dolomite, with considerable anhydrite and gypsum, some limestone.	Sub-Floridan confining unit		

Generalized geology and hydrogeology of east-central Florida (modified from Tibbals, 1990; and Spechler and Halford, 2001).

Hydrogeology and Water-Quality Characteristics of the Lower Floridan Aquifer in East-Central Florida

Generalized Regional Geology and Hydrogeology



Port Orange Cross Section Location Map

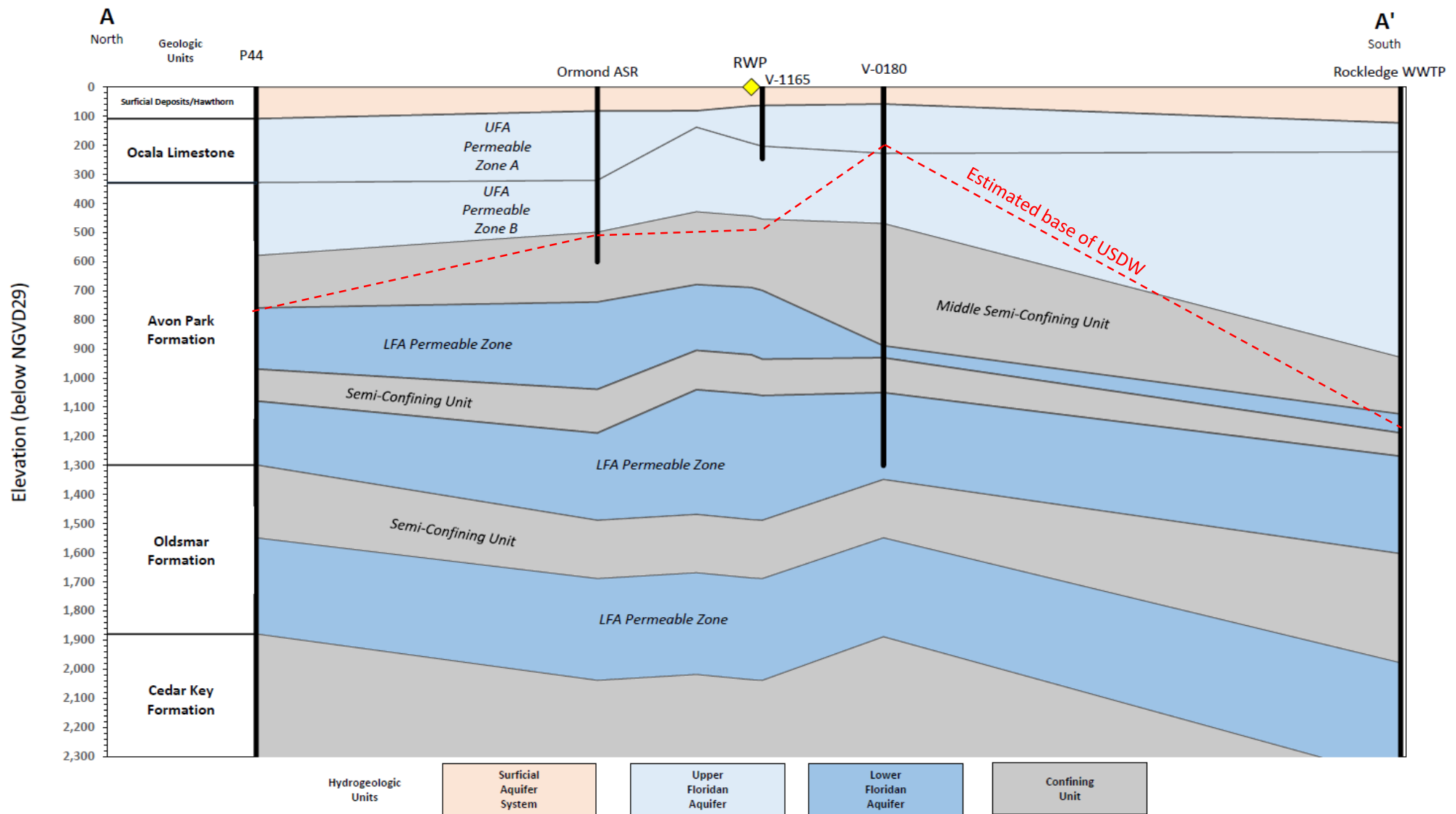
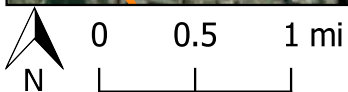


Exhibit 7 Cross Section A-A'



R. Dwayne Huffman RWP

Revised 6/17/2022



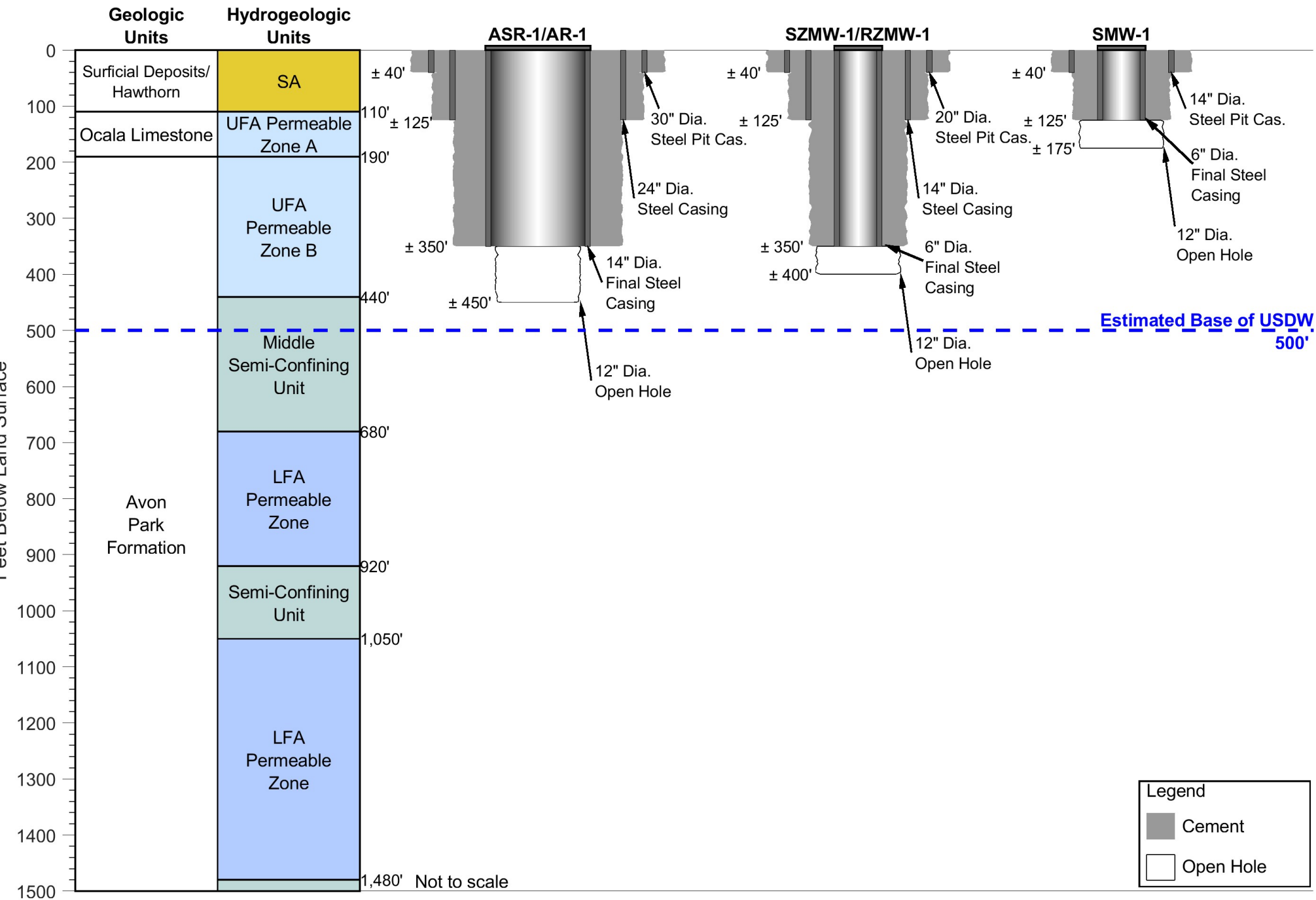
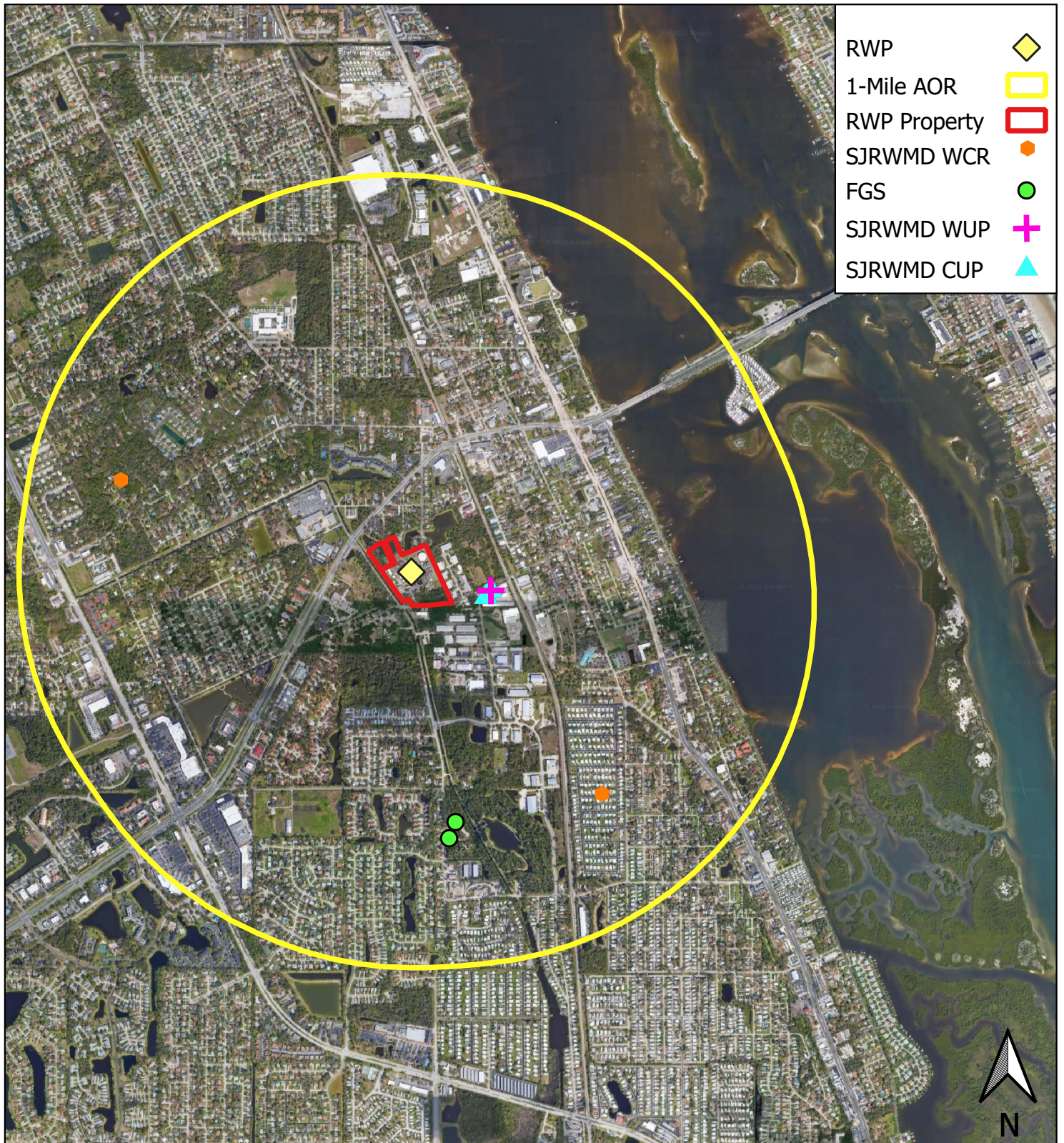


Exhibit 9
ASR/AR Well Construction Diagram Options 1 and 2

EXHIBIT 10 – Planning Level Cost Estimates			
	ASR Well	Recharge Well	Deep Injection Well
Drilling Costs	\$5,000,000	\$4,000,000	\$7,000,000
Preliminary Design	\$100,000	\$100,000	\$100,000
Engineering Costs	\$700,000	\$600,000	\$900,000
Total Cost	\$5,800,000	\$4,700,000	\$8,000,000

ATTACHMENT A.

Well Inventory



R. Dwayne Huffman RWP 1-Mile AOR Wells >250 ft

SJRWMD Consumptive Use Permits within the 1-Mile AOR

Permit No.	Owner Name	Expiration	Status	Well Use	Casing Dia. (in)	Casing Depth (ft)	Total Depth (ft)	Latitude	Longitude	Source
64079	City of Port Orange	3/7/2007	Closed	Other	12	120	300	29.13634455	-80.99109444	FAS - Upper Floridan Aquifer
124270	City of Port Orange	8/7/2027	Issued	Landscape/Recreation/Aesthetic	12	120	300	29.13660001	-80.99086854	FAS - Upper Floridan Aquifer
110191	City of Port Orange	8/7/2027	Closed	Other	12	120	300	29.13634455	-80.99109444	FAS - Upper Floridan Aquifer
51218	City of Port Orange		Never Issued	Other	12	120	300	29.13634455	-80.99109444	FAS - Upper Floridan Aquifer
90139	City of Port Orange	3/7/2007	Closed	Public Supply	12	120	300	29.13634455	-80.99109444	FAS - Upper Floridan Aquifer

Wells Identified in the Florida Geological Survey Database Within the 1.0-Mile Area of Review

Number	Name	Use	Township	Range	Section	Latitude	Longitude	Well Depth (feet)	Year Drilled
19493	V-1165 Buschman Park	Mineral Exploration	16	33	10	29.12732	-80.992485	462	2010
19849	Buschman Park V-1165	NA	30	27	4	27.90464	-81.621586	635	2014
582	City of Port Orange	Public Supply	30	27	4	27.89565	-81.620439	538	1941
3529	R. Christanson - Port Orange (USGS - Hw-ga-2)	Domestic - Self-Supplied	30	27	4	27.89565	-81.620439	538	1954

SJRWMD WCR 1-Mile AOR

FLUID	Owner Name	Year Drilled	Status	Well Use	Casing Dia. (in)	Casing Depth (ft)	Total Depth (ft)	Latitude	Longitude
79	Koberg	4/30/1997	Active	Irrigation	2	85	910	29.14075702	-81.00782495
423	SJRWMD V-1165	1/12/2010	New Construction	Monitoring	4	210	0	29.12816635	-80.98583732
940	Florida Power & Light	9/11/2014	Active	Irrigation - Landscape	4	100	460	29.12838192	-81.00573335
65	Thomas Gunderman	10/6/1998	Active	Irrigation	4	110	160	29.12887965	-81.00349225
121	Tanneh Baum Lees-	7/27/1999	Active	Irrigation	4	160	160	29.14364494	-80.98586058
385	Thomas Gunderman	10/6/1998	Active	Irrigation - Landscape	4	110	160	29.12761855	-81.00117187
137	New Day Development	9/7/2007	Active	Irrigation	4	90	150	29.14576146	-80.98950402
235	City Of Port Orange	9/6/1991	Active	Irrigation	4	0	150	29.1458208	-80.98937391
396	Carol Milevski	5/14/2013	Active	Irrigation - Landscape	4	85	150	29.12693843	-80.99398257
438	0	1/0/1900	Proposed	Irrigation - Landscape	4	80	150	29.14718983	-81.00458022
514	Pmv Inc	11/19/1994	Active	Irrigation	16	0	150	29.15311791	-80.9944323
708	Epiphany Housing Inc	1/0/2000	Proposed	Irrigation - Landscape	4	80	150	29.13424058	-80.98440336
714	Daytona Multifamily QOZ Venture LLC	5/14/2020	Proposed	Irrigation - Landscape	4	100	150	29.15151769	-80.99260683
841	Raymond Corson	7/24/1995	Active	Irrigation	0	0	150	29.1377485	-81.00835582
284	City Of Port Orange	9/7/1989	Active	Irrigation	4	0	148	29.14574947	-80.98687647
287	K-mart Corp.	7/25/1990	Active	Domestic	0	0	140	29.127655	-81.00178891
294	Ron Bledsoe	4/11/1986	Active	Domestic	0	0	140	29.1287243	-80.98501298
313	Ron Bowling	11/25/1986	Active	Irrigation	0	0	140	29.14075702	-81.00782495
386	K-Mart Corp	7/25/1990	Active	Domestic	4	97	140	29.12761855	-81.00117187
399	McKenney Enterprises	4/8/2016	New Construction	Irrigation - Landscape	0	93	140	29.12927034	-81.00620646
655	Halifax River Partners Llc	1/0/1900	Proposed	Irrigation - Landscape	4	100	140	29.14680014	-80.98748797
710	Halifax River Partners Llc	1/0/1900	Proposed	Irrigation - Landscape	4	100	140	29.14729856	-80.98811775
711	PAYTAS HOMES INC	1/0/1900	Proposed	Irrigation - Landscape	4	100	140	29.13049594	-80.98037111
712	Cozy Corner Apartments Llc	1/0/1900	Proposed	Irrigation - Landscape	4	100	140	29.13038722	-80.98383933
777	Circle K Stores Inc	4/18/2016	New Construction	Irrigation - Landscape	0	98	140	29.13739153	-81.01072655
857	Am South Bank	3/12/2007	Active	Irrigation	4	95	140	29.14555399	-80.99534848
911	Paytas Homes	1/0/1900	Active	Irrigation - Landscape	4	100	140	29.13063625	-80.97999147
25	Culleton Construction	3/10/1998	Active	Irrigation	4	90	135	29.15121135	-80.9912487
226	Robert Grooms	8/17/1995	Active	Irrigation	2	0	135	29.14707447	-80.99382076
286	Jobalia D Dipak	2/4/1990	Active	Irrigation	0	0	135	29.127655	-81.00178891
297	Don Bell	7/30/1986	Active	Irrigation	0	0	135	29.1287243	-80.98501298
321	Cnb Bank	2/28/1988	Active	Irrigation	0	0	135	29.14075702	-81.00782495
600	Tanglewood Mobile Park	7/19/1988	Active	Irrigation	0	0	135	29.1287243	-80.98501298
739	The Johnson Group	9/1/1995	Active	Irrigation	1	0	135	29.14075702	-81.00782495
826	Woodlake Homeowned Court	10/20/2000	Active	Irrigation	4	135	135	29.127655	-81.00178891
836	Neema Chopra	6/15/1987	Active	Irrigation	0	0	135	29.14555399	-80.99834848
867	Regency Hospital Group	2/12/2002	Active	Irrigation	4	91	135	29.14627407	-80.99061018
890	M. Gregory	9/25/1987	Active	Irrigation	0	0	135	29.14075702	-81.00782495
932	George Wood	1/11/2011	Active	Irrigation - Landscape	4	95	135	29.12816635	-80.98583732
956	Johnson Group	12/12/1995	Active	Irrigation	1	0	135	29.14075702	-81.00782495
697	Neema Chopra	5/27/1987	Active	Irrigation - Landscape	2	86	134	29.14490652	-80.99710752
882	Neema Chopra	5/27/1987	Active	Irrigation	0	0	134	29.14555399	-80.99834848
322	Charles Grimsell	7/16/1988	Active	Irrigation	0	0	132	29.14075702	-81.00782495
607	L Z Balla	4/28/1988	Active	Irrigation	0	0	132	29.14075702	-81.00782495
844	Dan Cuomo	6/20/1988	Active	Irrigation	0	0	132	29.127655	-81.00178891
960	The South Land Corporation	9/13/1999	Active	Irrigation	6	132	132	29.1458208	-80.98937391
23	JAMES GELOW	9/11/2001	Active	Irrigation	2	85	130	29.14075702	-81.00782495
111	Seagote Homes	6/30/2000	Active	Irrigation	2	130	130	29.15173295	-81.00062863
116	Russel Pew	6/28/2000	Active	Irrigation	4	93	130	29.13326088	-81.01173526
131	Alice Sherman	7/21/2005	Active	Irrigation	2	91	130	29.13726286	-81.00061964
151	Steven D'agresta	8/1/1994	Active	Irrigation	0	0	130	29.14420563	-81.00914521
262	R.J. Defilippo	4/9/1993	Active	Irrigation	2	0	130	29.14075702	-81.00782495
279	Vernice Baumstark	7/20/1987	Active	Irrigation	0	0	130	29.14075702	-81.00782495
280	Ed James	12/29/1987	Active	Irrigation	0	0	130	29.14075702	-81.00782495
281	Peter Eckmayer	12/20/1987	Active	Irrigation	0	0	130	29.14075702	-81.00782495
282	Winslow Hall	12/15/1989	Active	Domestic	0	0	130	29.1287243	-80.98501298
288	Mitchell Gembala	11/20/1989	Active	Irrigation	0	0	130	29.127655	-81.00178891
300	Mckanney	7/6/1987	Active	Irrigation	0	0	130	29.14075702	-81.00782495
301	Gerald Thomas	6/29/1987	Active	Domestic	0	0	130	29.14075702	-81.00782495
302	Leslie Stephenson	7/3/1987	Active	Irrigation	0	0	130	29.14075702	-81.00782495
305	Jill Baughan	2/21/1987	Active	Irrigation	0	0	130	29.14075702	-81.00782495
315	Socha Corp.	12/20/1986	Active	Irrigation	0	0	130	29.14075702	-81.00782495
318	Tompkins Investment Group	12/29/1989	Active	Irrigation	0	0	130	29.14075702	-81.00782495
319	Tompkins Investment	8/15/1989	Active	Domestic	0	0	130	29.14075702	-81.00782495
326	Robert Marsch	5/18/1988	Active	Irrigation	0	0	130	29.14075702	-81.00782495
331	Pat Amodio	5/10/1987	Active	Irrigation	0	0	130	29.14075702	-81.00782495
332	Socha Corp	3/2/1987	Active	Irrigation	0	0	130	29.14075702	-81.00782495
334	John Pirich	2/25/1987	Active	Irrigation	0	0	130	29.14075702	-81.00782495
335	Joe Corbe	2/25/1987	Active	Irrigation	0	0	130	29.14075702	-81.00782495
339	Wm. O. & Edna H. Daves	6/28/1990	Active	Irrigation	0	0	130	29.14075702	-81.00782495
340	Dale Cellis & Stephanie	6/28/1990	Active	Irrigation	0	0	130	29.14075702	-81.00782495
422	SJRWMD V-1163	1/12/2010	New Construction	Monitoring	6	82	130	29.12816635	-80.98583732
424	601 Oak Properties Llc	8/20/2020	Proposed	Irrigation - Landscape	4	90	130	29.13718578	-80.99140792
483	George Vasicikanin	3/10/1988	Active	Irrigation	0	0	130	29.127655	-81.00178891
486	William Kuehn	9/4/1987	Active	Irrigation	0	0	130	29.14075702	-81.00782495
487	Tom Gozzi	2/28/1987	Active	Irrigation	0	0	130	29.14075702	-81.00782495
494	Michael & Shelia Clancy	6/28/1990	Active	Irrigation	0	0	130	29.14075702	-81.00782495
511	George Scott	4/28/1991	Active	Domestic	0	0	130	29.13496959	-80.99967535
546	Johnson Croop	10/30/1999	Active	Irrigation	2	130	130	29.14075702	-81.00782495
551	Phyllis Dibble	5/1/1998	Active	Irrigation	2	100	130	29.1458334	-80.99885697

602	John J. Toon	12/20/1989	Active	Irrigation	2	0	130	29.14075702	-81.00782495
614	Lawn Velmon	10/10/1986	Active	Irrigation	0	0	130	29.1458208	-80.98937391
742	Dunlawton Investments LLC	1/0/1900	Active	Irrigation - Landscape	4	90	130	29.13760936	-81.00946442
757	Howard Lancaster	8/4/1987	Active	Irrigation	0	0	130	29.14075702	-81.00782495
762	Thomas Puorro	5/10/1987	Active	Irrigation	0	0	130	29.14075702	-81.00782495
763	Tompkins Investment Group Inc.	6/28/1990	Active	Irrigation	0	0	130	29.14075702	-81.00782495
835	Thelma M. Fisher	6/28/1990	Active	Irrigation	0	0	130	29.14075702	-81.00782495
859	Edward Kay	9/22/1994	Active	Irrigation	0	0	130	29.14208323	-81.00529611
869	Lawrence Deming	6/16/1986	Active	Irrigation	0	0	130	29.14075702	-81.00782495
872	James Polito	12/16/1989	Active	Irrigation	0	0	130	29.14075702	-81.00782495
873	Mr Heimenan	8/10/1988	Active	Irrigation	0	0	130	29.14075702	-81.00782495
875	Jill Baugham	2/25/1987	Active	Irrigation	0	0	130	29.14075702	-81.00782495
900	Phyllis Dibble	5/1/1998	Active	Irrigation - Landscape	2	100	130	29.14583319	-80.99886348
912	Winslow Hall	12/15/1989	Active	Domestic	2	92	130	29.12816635	-80.98583732
941	George C Scott	4/28/1991	Active	Domestic	4	97	130	29.14179133	-81.00748982
942	James Garratt	12/20/1987	Active	Irrigation	0	0	130	29.14075702	-81.00782495
945	Mr Dill	2/27/1988	Active	Irrigation	0	0	130	29.14075702	-81.00782495
946	Donald G. & Savannah Pincott	6/28/1990	Active	Irrigation	0	0	130	29.14075702	-81.00782495
80	David Duff	11/25/1998	Active	Irrigation	2	88	128	29.14555399	-80.99834848
588	Malcolm Reed	6/2/1992	Active	Irrigation	2	0	128	29.12604832	-80.9944323
854	Scott Drewry	1/1/1996	Active	Irrigation	2	96	128	29.1287243	-80.98501298
952	David Duff	11/25/1998	Active	Irrigation - Landscape	2	88	128	29.14348727	-81.0073926
601	Mr Williams	8/1/1987	Active	Irrigation	0	0	127	29.127655	-81.00178891
30	Roseanne Hyde	5/18/1999	Active	Irrigation	2	87	125	29.14075702	-81.00782495
32	Johnson Group	8/28/1998	Active	Irrigation	2	87	125	29.14075702	-81.00782495
55	Shraba Partnoy	4/25/1998	Active	Irrigation	2	96	125	29.13145324	-80.99659068
57	David Aghavian	1/0/1900	Active	Irrigation	2	97	125	29.13145324	-80.9962939
59	Ernest Shelton	6/10/1999	Active	Irrigation	2	87	125	29.14075702	-81.00782495
69	Lorueff A Pourshall	12/27/1999	Active	Irrigation	2	120	125	29.14075702	-81.00782495
71	Led Levine	11/26/1999	Active	Irrigation	0	0	125	29.14075702	-81.00782495
82	Charron Glibrt	4/17/1997	Active	Irrigation	2	92	125	29.127655	-81.00178891
91	Harold Rees	3/18/1997	Active	Irrigation	2	87	125	29.13145324	-80.9962939
92	Malcolm Scott	3/15/1997	Active	Irrigation	2	87	125	29.13147123	-80.99596115
114	Joseph Messina	1/10/2000	Active	Irrigation	0	0	125	29.12536483	-80.99617699
123	Drysdale	7/13/2000	Active	Irrigation	2	125	125	29.13264035	-80.9990728
147	Celia Lamotta	6/28/1994	Active	Irrigation	6	0	125	29.14075702	-81.00782495
169	Forrell Enterprises Inc.	9/30/1996	Active	Irrigation	2	0	125	29.14536575	-80.98861369
171	Lim Paytas Construction	3/5/1996	Active	Irrigation	2	0	125	29.14075702	-81.00782495
172	Lydia Patterson	6/5/1996	Active	Irrigation	0	0	125	29.14075702	-81.00782495
173	H & J Development	5/5/1996	Active	Irrigation	2	0	125	29.14075702	-81.00782495
177	Robert Crusan	6/28/1996	Active	Irrigation	0	0	125	29.14310898	-80.99543309
220	Charles Snipes	10/30/1995	Active	Irrigation	1	0	125	29.13329685	-81.00593463
222	Cecilia Torres	3/30/1995	Active	Irrigation	2	0	125	29.14075702	-81.00782495
254	Robert P. Lee	7/3/1993	Active	Irrigation	2	0	125	29.14075702	-81.00782495
255	H & J Dev. Co. Inc.	6/17/1993	Active	Irrigation	0	0	125	29.14075702	-81.00782495
268	Jim Paytas Construction Inc.	6/28/1993	Active	Irrigation	2	0	125	29.14075702	-81.00782495
328	Heinz Hansen	6/2/1987	Active	Irrigation	0	0	125	29.14075702	-81.00782495
330	C. D. Tillery	5/27/1987	Active	Irrigation	0	0	125	29.14075702	-81.00782495
333	Stanley Sherman	3/15/1987	Active	Irrigation	0	0	125	29.14075702	-81.00782495
345	Socha Corp	4/15/1987	Active	Irrigation	0	0	125	29.14075702	-81.00782495
346	Bob Perry	3/5/1987	Active	Irrigation	0	0	125	29.14075702	-81.00782495
389	Ray Buffington	7/8/1997	Active	Irrigation - Landscape	2	87	125	29.123478	-80.99300343
449	Ocha Corp	4/25/1987	Active	Irrigation	0	0	125	29.14075702	-81.00782495
497	Jim Paytas Construction Inc.	9/9/1993	Active	Irrigation	2	0	125	29.14075702	-81.00782495
501	John West	2/15/1996	Active	Irrigation	2	0	125	29.127655	-81.00178891
502	Robert Pietras	12/1/1996	Active	Irrigation	2	0	125	29.14075702	-81.00782495
503	H & J Development	5/5/1996	Active	Irrigation	2	0	125	29.14075702	-81.00782495
528	Raspoli	10/28/1998	Active	Irrigation - Landscape	2	89	125	29.13942558	-80.99482901
567	Jim Paytas Construction Inc.	7/5/1993	Active	Irrigation	2	0	125	29.14075702	-81.00782495
585	Ronald Masal	6/5/1996	Active	Irrigation	2	0	125	29.13148022	-80.99472908
586	Lim Paytas Construction	8/15/1996	Active	Irrigation	2	0	125	29.14075702	-81.00782495
609	Mark Kols	3/20/1987	Active	Irrigation	0	0	125	29.14075702	-81.00782495
650	Shirley Scible	2/10/1996	Active	Irrigation	2	0	125	29.14075702	-81.00782495
651	Robert Orton	4/15/1996	Active	Irrigation	2	0	125	29.14075702	-81.00782495
677	Andrew Larubbio	6/10/1995	Active	Irrigation	1	0	125	29.14075702	-81.00782495
678	Jim Paytas Construction	12/15/1995	Active	Irrigation	0	0	125	29.14075702	-81.00782495
720	Robert Eikenberry	5/10/1995	Active	Irrigation	1	0	125	29.14438991	-81.00615614
740	Jack Young	10/1/1995	Active	Irrigation	2	0	125	29.1240878	-80.99529565
749	Richard Acas	3/20/1995	Active	Irrigation	2	0	125	29.14239799	-81.00196862
750	Jim Daytus	3/15/2000	Active	Irrigation	3	98	125	29.14075702	-81.00782495
761	William Smith	1/25/1988	Active	Irrigation	0	0	125	29.14075702	-81.00782495
770	Jim Paytas Const.	12/3/1993	Active	Irrigation	2	0	125	29.14075702	-81.00782495
773	Mildred Cail	5/22/1998	Active	Irrigation	2	88	125	29.14075702	-81.00782495
774	John R. & Sheryl S. Zust	6/17/1993	Active	Irrigation	2	0	125	29.14075702	-81.00782495
799	Tony Stera	1/0/1900	Active	Irrigation	0	0	125	29.14075702	-81.00782495
812	Oscar Pallmer	1/21/1988	Active	Irrigation	0	0	125	29.14075702	-81.00782495
821	Tara Hodges	5/18/1999	Active	Irrigation	2	87	125	29.14075702	-81.00782495
858	Tompkins Investment	11/30/1994	Active	Irrigation	4	0	125	29.14075702	-81.00782495
862	Joey Stera	2/22/2001	Active	Irrigation	2	88	125	29.1324067	-80.99076597
874	Fred Allen	5/8/1987	Active	Irrigation	0	0	125	29.14075702	-81.00782495
889	Jim Paytas Construction	6/23/1993	Active	Irrigation	2	0	125	29.14075702	-81.00782495
919	Jim Paytas Const.	12/3/1993	Active	Irrigation	2	0	125	29.14075702	-81.00782495
943	AAA Welding of Security	3/21/1997	Active	Irrigation	0	0	125	29.1458208	-80.98937391
973	Jim Paytas Construction Inc.	6/28/1993	Active	Irrigation	2	0	125	29.14075702	-81.00782495
975	Jim Paytas Construction	3/10/1995	Active	Irrigation	1	0	125	29.14075702	-81.00782495

987	James Gelow	3/4/1987	Active	Irrigation	0	0	125	29.14075702	-81.00782495
317	Ray Bagozzi	2/5/1989	Active	Irrigation	0	0	124	29.14075702	-81.00782495
344	Terry Marcum	6/2/1986	Active	Domestic	0	0	124	29.14075702	-81.00782495
931	Erwin Hartman	6/7/1986	Active	Irrigation	0	0	124	29.13919661	-80.98953318
63	Johnson Group	4/26/1999	Active	Irrigation	2	123	123	29.14075702	-81.00782495
64	Johnson Group Inc	2/3/1999	Active	Irrigation	2	123	123	29.14075702	-81.00782495
76	Don Grovett	7/16/1998	Active	Irrigation	2	84	123	29.14555399	-80.99834848
433	Scott Bcssett	3/30/1999	Active	Irrigation	0	0	123	29.14075702	-81.00782495
527	Don Grouette	7/16/1998	Active	Irrigation - Landscape	2	84	123	29.14490652	-80.99710752
606	Tompkins Investment Group Inc	9/10/1989	Active	Irrigation	0	0	122	29.14075702	-81.00782495
611	Charles J. Jr & Jean M Morris	6/26/1990	Active	Irrigation	0	0	121	29.14075702	-81.00782495
16	SEAGATE HOMES	6/29/2001	Active	Irrigation	2	120	120	29.14075702	-81.00782495
28	Graziano	4/29/1997	Active	Irrigation	0	0	120	29.14555399	-80.99834848
39	Johnson Group	4/15/1998	Active	Irrigation	2	85	120	29.14075702	-81.00782495
40	Johnson Group Inc	8/14/1998	Active	Irrigation	2	86	120	29.14075702	-81.00782495
48	Nona Fretwell	3/10/1999	Active	Irrigation	2	86	120	29.14075702	-81.00782495
51	Johnson Group	9/26/1997	Active	Irrigation	2	85	120	29.14075702	-81.00782495
54	Johnson Group	9/9/1997	Active	Irrigation	2	94	120	29.14075702	-81.00782495
56	John Wilbanks	6/20/1997	Active	Irrigation	2	82	120	29.14075702	-81.00782495
58	Nalle, Paul	2/27/1998	Active	Other/Unknown	2	94	120	29.127655	-81.00178891
61	Eagn On	2/18/1998	Active	Irrigation	2	95	120	29.127655	-81.00178891
67	McDonalds Garms	1/19/1998	Active	Irrigation	2	84	120	29.14075702	-81.00782495
68	Johnson Group	1/20/1998	Active	Irrigation	2	85	120	29.14075702	-81.00782495
75	William Humbert	6/6/1997	Active	Irrigation	2	82	120	29.14075702	-81.00782495
83	Mc Donalds Farm Inc	8/14/1998	Active	Irrigation	2	86	120	29.14075702	-81.00782495
84	Boyer	5/3/1998	Active	Irrigation	2	87	120	29.14075702	-81.00782495
105	Ms. Harriety	3/26/2002	Active	Irrigation	4	120	120	29.1315072	-80.99608666
109	Kristine Phelps	11/23/1999	Active	Irrigation	2	87	120	29.14355115	-81.00335389
125	Kenneth Roberts	4/4/2000	Active	Irrigation	2	85	120	29.14034754	-81.00574577
126	Robert Sharpe	4/9/2002	Active	Irrigation	2	87	120	29.127655	-81.00178891
130	Alice Silverman	7/21/2005	Active	Other	2	90	120	29.13726286	-81.00061964
132	A & H Investment Group	6/16/2005	Active	Irrigation	2	89	120	29.14075702	-81.00782495
142	Stephen L. Paytas	4/6/1993	Active	Irrigation	0	0	120	29.14075702	-81.00782495
156	Davis George	5/18/1994	Active	Irrigation	0	0	120	29.14256886	-81.00590765
158	William Humbert	5/3/1994	Active	Irrigation	0	0	120	29.14075702	-81.00782495
159	W. H. Humbert	2/21/1994	Active	Irrigation	0	0	120	29.14075702	-81.00782495
165	Rayvande Bogart	1/10/1996	Active	Irrigation	2	0	120	29.127655	-81.00178891
166	Sessler	12/31/1996	Active	Irrigation	2	0	120	29.12254996	-80.99702235
174	Steven Carter	6/10/1996	Active	Irrigation	2	0	120	29.14075702	-81.00782495
175	Alan Berthiaume	11/6/1995	Active	Irrigation	2	0	120	29.14075702	-81.00782495
178	City Of Port Orange	9/7/1989	Active	Irrigation	2	0	120	29.1458208	-80.98937391
180	Indigo Group L T D	7/15/1992	Active	Irrigation	2	0	120	29.12334725	-80.99538394
182	Clore	8/5/1992	Active	Irrigation	2	0	120	29.12596738	-80.99526867
189	Indigo Group	9/30/1992	Active	Irrigation	2	0	120	29.12581449	-80.99624893
190	Indigo Group Ltd	8/18/1992	Active	Irrigation	2	0	120	29.127655	-81.00178891
191	Indigo Group	8/21/1992	Active	Irrigation	2	0	120	29.12594939	-80.99700436
195	Hopper David	6/12/1992	Active	Irrigation	2	0	120	29.14075702	-81.00782495
198	R. J. Defillippo	11/27/1992	Active	Irrigation	2	0	120	29.14075702	-81.00782495
201	Anne Farrell	7/17/1992	Active	Irrigation	2	0	120	29.14075702	-81.00782495
202	Mr. Brooks	7/31/1992	Active	Irrigation	4	0	120	29.14075702	-81.00782495
203	Street	8/24/1992	Active	Irrigation	2	0	120	29.13648045	-81.00302982
223	Jim Raytas Construction	3/25/1995	Active	Irrigation	1	0	120	29.14075702	-81.00782495
224	Clark Propernes	6/8/1995	Active	Irrigation	1	0	120	29.13246948	-81.00785918
239	Frye	6/2/1991	Active	Irrigation	2	0	120	29.12241506	-80.99447727
250	Indigo Group Ltd	7/19/1993	Active	Irrigation	2	0	120	29.12246902	-80.99469311
256	Orthul Carter	12/16/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
257	William Alcorn	11/26/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
258	Jim Raytas Const.	12/1/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
261	H.t. & Beverlya Heitcnerater	6/17/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
264	Lewin Shaw	8/20/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
265	Edward J. Deprato	7/13/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
266	Tompkins Investment	7/24/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
267	R.j Defillippo Inc.	5/7/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
276	Pmu Inc	4/26/1993	Active	Irrigation	4	0	120	29.15288232	-80.99467327
290	B H Lahna	8/12/1988	Active	Domestic	0	0	120	29.127655	-81.00178891
306	James R. Wampler, Jr.	3/10/1987	Active	Irrigation	0	0	120	29.14075702	-81.00782495
307	Joan Socha	3/20/1987	Active	Irrigation	0	0	120	29.14075702	-81.00782495
308	Adulbert Domugala	2/24/1987	Active	Irrigation	0	0	120	29.14075702	-81.00782495
312	Bernie Carey	10/26/1986	Active	Irrigation	0	0	120	29.14075702	-81.00782495
314	David Petero	8/27/1986	Active	Domestic	0	0	120	29.14075702	-81.00782495
337	Juliano, Mark T. & Ruth G.	4/24/1990	Active	Irrigation	0	0	120	29.14075702	-81.00782495
338	Tompkins Investment Group Inc	2/6/1990	Active	Irrigation	0	0	120	29.14075702	-81.00782495
343	Thompson Barnhart	2/11/1986	Active	Irrigation	0	0	120	29.14075702	-81.00782495
349	Robert Davis	7/27/1988	Active	Irrigation	0	0	120	29.1458208	-80.98937391
351	Martin Asphett	2/20/1987	Active	Irrigation	0	0	120	29.1458208	-80.98937391
356	Charles McKinney	4/7/1987	Active	Irrigation	0	0	120	29.14555399	-80.99834848
359	Francis K. Blake	5/8/1987	Active	Irrigation	0	0	120	29.14555399	-80.99834848
366	Halifax Hospital Med Center	7/28/1994	Active	Irrigation	4	0	120	29.127655	-81.00178891
390	Chia Wei Fung & Yu-Mei Fung	5/23/1991	Active	Domestic	4	95	120	29.14195302	-80.98653511
391	Albert Gigliotti	8/9/1989	Active	Irrigation - Landscape	2	92	120	29.136173	-81.002723
411	McDonalds Corp	7/9/2014	Abandoned	Other/Unknown	4	100	120	29.1268812	-81.00486707
420	Boyer	5/29/1998	Active	Irrigation - Landscape	2	87	120	29.14179133	-81.00748982
444	Steven Levine	6/26/1994	Active	Irrigation	2	0	120	29.14075702	-81.00782495
447	Richard C. Moore	2/11/1992	Active	Irrigation	2	0	120	29.14075702	-81.00782495
453	Benjamin S. Giglio	4/1/1993	Active	Irrigation	2	0	120	29.13710099	-81.00144701

457	Johnson Group	9/26/1997	Active	Irrigation	2	84	120	29.14075702	-81.00782495
459	Bosish	7/5/1998	Active	Irrigation	21	96	120	29.12761855	-81.00117187
460	Shannon	5/26/1999	Active	Irrigation	2	87	120	29.14075702	-81.00782495
461	Johnson Group	3/10/1998	Active	Irrigation	2	86	120	29.14075702	-81.00782495
482	Peter Shanley	5/13/1987	Active	Irrigation	0	0	120	29.127655	-81.00178891
488	Joan Socha	3/31/1987	Active	Irrigation	0	0	120	29.14075702	-81.00782495
492	Joe P Chachko	1/2/1987	Active	Irrigation	0	0	120	29.14075702	-81.00782495
498	Ben Jamin	4/1/1993	Active	Irrigation	2	0	120	29.13710099	-81.00144701
499	Raymond & Priscilla L. Harrell	5/15/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
506	Indigo Group	8/6/1992	Active	Irrigation	2	0	120	29.12364713	-80.99621296
512	Wayne Wilcox	2/7/1991	Active	Irrigation	0	0	120	29.12246902	-80.99513377
513	Richard H. Boye Et Al	9/11/1991	Active	Irrigation	2	0	120	29.127655	-81.00178891
515	Sanchez, Arnulfo	9/26/1995	Active	Irrigation	1	0	120	29.14075702	-81.00782495
520	Weston	4/7/1987	Active	Irrigation	0	0	120	29.14555399	-80.99834848
524	Robert C Sessler	12/31/1996	Active	Irrigation - Landscape	2	94	120	29.12256	-80.99701902
526	Charles Wayne Group	7/30/1991	Active	Irrigation - Landscape	2	86	120	29.123154	-80.99701902
537	0	4/27/2020	Active	Irrigation - Landscape	4	90	120	29.15157181	-80.99515858
539	Rainka Richard	6/16/1994	Active	Irrigation - Landscape	2	90	120	29.13516459	-81.0032133
541	Raymond Corson	7/2/1999	Active	Irrigation - Landscape	4	95	120	29.13753363	-81.00821987
542	Halifax River Partners LLC	6/11/2014	Active	Irrigation - Landscape	4	90	120	29.14764257	-80.98774529
543	Far Haven Food	8/21/2014	Active	Irrigation - Landscape	4	101	120	29.1268812	-81.00486707
550	Johnson Group	3/17/1997	Active	Irrigation	2	85	120	29.14075702	-81.00782495
564	Kip Morse	2/28/2000	Active	Irrigation	2	44	120	29.14299905	-80.99091903
566	Tompkins Investment Group Inc.	12/23/1991	Active	Irrigation	0	0	120	29.14075702	-81.00782495
568	Stephen Paytos	4/8/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
569	Tim Paytas Const.	2/9/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
570	Charles R. Muelleman	3/9/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
573	Frank Paulich	10/20/1987	Active	Irrigation	0	0	120	29.14075702	-81.00782495
574	Circle K. Corp.	11/17/1987	Active	Irrigation	0	0	120	29.14075702	-81.00782495
578	Nimo Barra	8/16/1993	Active	Irrigation	1	0	120	29.14334228	-80.99275057
579	Dennis V. Emerson	6/22/1994	Active	Irrigation	0	0	120	29.14219115	-81.00552094
582	H & J Dev Co. Inc.	8/8/1994	Active	Irrigation	2	0	120	29.14075702	-81.00782495
584	Floyd Shoup	5/13/1994	Active	Irrigation	0	0	120	29.14075702	-81.00782495
591	John Molitor	1/23/1992	Active	Irrigation	2	0	120	29.14075702	-81.00782495
599	Alan Berthhiaueme	10/15/1995	Active	Irrigation	2	0	120	29.14075702	-81.00782495
603	Kerri Schuster	3/3/1987	Active	Irrigation	0	0	120	29.14075702	-81.00782495
610	Tompkins Investment Group Inc	4/6/1990	Active	Irrigation	0	0	120	29.14075702	-81.00782495
628	Christopher M Gaffka	4/18/2016	New Construction	Irrigation - Landscape	0	95	120	29.12178637	-80.99431908
635	Bernard Larkin	4/18/1994	Active	Irrigation	0	0	120	29.14075702	-81.00782495
636	William Humbert	12/23/1994	Active	Irrigation	0	0	120	29.14075702	-81.00782495
641	Ronald Wylie	4/20/1994	Active	Irrigation	0	0	120	29.14075702	-81.00782495
644	Joseph Delorenzo	6/28/1994	Active	Irrigation	0	0	120	29.14075702	-81.00782495
645	W. H. Humbert	5/6/1994	Active	Irrigation	2	0	120	29.14075702	-81.00782495
652	Raumond Chestnut	5/30/1996	Active	Irrigation	2	0	120	29.14075702	-81.00782495
653	Mat Serwas	6/25/1990	Active	Irrigation	0	0	120	29.1287243	-80.98501298
657	Johnson Group	8/10/1998	Active	Irrigation	2	86	120	29.14075702	-81.00782495
658	Defilippo, RJ Inc	3/12/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
659	H & J Development Co. Inc.	5/26/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
667	William Snyder	6/14/1991	Active	Irrigation	0	0	120	29.14075702	-81.00782495
670	Indigo Group Ltd	6/2/1992	Active	Irrigation	2	0	120	29.12210929	-80.9970853
671	Fountain, Dana	5/15/1992	Active	Irrigation	2	0	120	29.12345827	-80.99384774
672	James Fahey	8/21/1992	Active	Irrigation	2	0	120	29.12437558	-80.9953586
673	Holland Nice Wander	8/9/1992	Active	Irrigation	0	0	120	29.13144425	-80.99409955
680	Wm Powell	4/7/1992	Active	Irrigation	0	0	120	29.14075702	-81.00782495
681	Duane, Tom	4/22/1992	Active	Domestic	4	0	120	29.14075702	-81.00782495
682	Yox	8/24/1992	Active	Irrigation	2	0	120	29.1362826	-81.0029309
683	Lois E. Clark	7/30/1993	Active	Irrigation	9	0	120	29.12956467	-80.97848732
690	Carey Mike	2/18/1985	Active	Irrigation	0	0	120	29.14382568	-81.00999143
702	Kanawha Payne	4/23/1991	Active	Irrigation - Landscape	2	89	120	29.1421222	-81.00235993
718	Robert Graves	9/27/1994	Active	Irrigation	2	0	120	29.12230714	-80.99299339
721	Dow Sherwood	11/23/1987	Active	Irrigation - Landscape	4	90	120	29.12761855	-81.00117187
726	Jim Paytas Construction	5/24/1994	Active	Irrigation	0	0	120	29.14075702	-81.00782495
727	Henderson Mary	5/23/1994	Active	Irrigation	2	0	120	29.14729438	-81.00474402
730	Pellegrino	10/12/1993	Active	Irrigation	2	0	120	29.12484323	-80.99529565
732	VANACORE CONST.	1/31/2003	Active	Irrigation	4	89	120	29.13406201	-81.01005413
734	KANDA SAME	6/30/2001	Active	Irrigation	2	89	120	29.13514946	-81.00512524
741	Jim Paytas Const.	12/1/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
752	Dennis V Emerson	6/22/1994	Active	Irrigation - Landscape	2	90	120	29.14221523	-81.00549962
755	Peter Chmiel	12/29/1993	Active	Irrigation	2	0	120	29.12418672	-80.99386573
756	Walter L. & Sharon L. Day	5/16/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
769	Murry Andrews	9/20/1994	Active	Irrigation	2	0	120	29.12242405	-80.99418049
784	Johnson Group	8/10/1998	Active	Irrigation	2	86	120	29.14075702	-81.00782495
787	Blum Robert	3/6/1999	Active	Irrigation	2	90	120	29.14075702	-81.00782495
788	Johnson Group	6/6/1997	Active	Irrigation	2	85	120	29.14075702	-81.00782495
790	Johnson Group Inc.	11/14/1996	Active	Irrigation	4	0	120	29.14075702	-81.00782495
791	Louis Stamm	9/10/1992	Active	Irrigation	0	0	120	29.1315072	-80.9939107
807	Francis K Blake	5/8/1987	Active	Irrigation - Landscape	2	90	120	29.14481901	-81.00014634
814	Jim Paytas Construction Inc.	9/26/1995	Active	Irrigation	1	0	120	29.14075702	-81.00782495
815	John Lavin	4/28/1994	Active	Irrigation	1	0	120	29.14075702	-81.00782495
817	Louise N Gagnon	2/18/1998	Active	Irrigation - Landscape	2	95	120	29.13013783	-80.99636907
830	Jim Paytas Construction Inc.	1/19/1994	Active	Irrigation	2	0	120	29.14075702	-81.00782495
845	Paphos Homes	11/22/1999	Active	Irrigation	2	86	120	29.14075702	-81.00782495
847	0	8/10/1998	Active	Irrigation	2	90	120	29.14075702	-81.00782495
849	Johnson Group Inc	7/22/1997	Active	Irrigation	2	85	120	29.14075702	-81.00782495
850	The Johnson Group	5/20/1997	Active	Irrigation	2	87	120	29.14075702	-81.00782495

851	Johnson Group	3/30/1998	Active	Irrigation	2	85	120	29.14075702	-81.00782495
852	Payne	4/23/1998	Active	Irrigation	2	89	120	29.14218215	-81.0022654
856	SEAGATE HOMES	4/27/2001	Active	Irrigation	2	120	120	29.14075702	-81.00782495
868	Mrs. Walters	3/4/1987	Active	Irrigation	0	0	120	29.14075702	-81.00782495
871	Gene Neighthold	4/5/1987	Active	Irrigation	0	0	120	29.1287243	-80.98501298
884	Michael Myers	12/20/1991	Active	Irrigation	0	0	120	29.14075702	-81.00782495
885	Ackerson	7/18/1991	Active	Irrigation	2	0	120	29.127655	-81.00178891
888	James Kopshina	6/9/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
897	John Phillips	8/9/1994	Active	Irrigation	4	0	120	29.1222262	-80.99595216
899	Higgins, Chris	7/15/1996	Active	Irrigation	2	0	120	29.14075702	-81.00782495
905	Johnson Group	5/7/1998	Active	Irrigation	2	85	120	29.14075702	-81.00782495
907	Long	7/30/1999	Active	Irrigation	2	93	120	29.1435851	-81.00564685
936	Dow Sherwood	11/23/1987	Active	Irrigation	0	0	120	29.127655	-81.00178891
944	Joan Socha	3/27/1987	Active	Irrigation	0	0	120	29.14075702	-81.00782495
947	Michael Watson	7/12/2000	Active	Irrigation	2	120	120	29.14075702	-81.00782495
954	Jim Paytas Const.	12/2/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
957	Cliverance	1/30/1992	Active	Irrigation	0	0	120	29.14075702	-81.00782495
959	R.J. DeFilippo Inc.	4/17/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
963	0	1/0/1900	Proposed	Irrigation - Landscape	4	100	120	29.15018778	-80.99162436
964	Rainka, Richard	6/16/1994	Active	Irrigation	0	0	120	29.13516744	-81.00320969
969	Indigo Group	8/10/1992	Active	Irrigation	2	0	120	29.12336834	-80.99528666
981	Jim Paytas Construction Inc.	9/9/1993	Active	Irrigation	2	0	120	29.14075702	-81.00782495
765	Rex Hughes	5/1/1989	Active	Irrigation	0	0	119	29.14075702	-81.00782495
592	Robert Graves	10/11/1994	Active	Other/Unknown	0	0	118	29.12230714	-80.99299339
150	Jim Paytas Const. Inc.	6/8/1992	Active	Irrigation	4	0	117	29.14075702	-81.00782495
233	Konstanty Brzek	7/16/1991	Active	Irrigation	0	0	117	29.14075702	-81.00782495
139	R. J. DeFilippo Inc.	2/18/1994	Active	Irrigation	0	0	115	29.14075702	-81.00782495
144	H & I Dev Co. Inc.	4/13/1994	Active	Irrigation	0	0	115	29.14075702	-81.00782495
149	Jim Paytas Construction	9/15/1994	Active	Irrigation	6	0	115	29.14075702	-81.00782495
161	Jim Paytas Construction Inc.	1/15/1994	Active	Irrigation	2	0	115	29.14075702	-81.00782495
238	Mccallum	8/23/1991	Active	Irrigation	2	0	115	29.12268485	-80.99525069
249	Roswell A. Reed	6/20/1993	Active	Irrigation	2	0	115	29.127655	-81.00178891
517	James Freeman	4/15/1995	Active	Irrigation	0	0	115	29.14075702	-81.00782495
575	Charles Wayne Group	5/30/1991	Active	Irrigation	2	0	115	29.12229814	-80.99702235
580	Orla Collier	5/17/1994	Active	Irrigation	0	0	115	29.14075702	-81.00782495
581	H & J Dev. Co. Inc.	9/15/1994	Active	Irrigation	0	0	115	29.14075702	-81.00782495
638	Jim Paytas Construction Inc.	6/29/1994	Active	Irrigation	2	0	115	29.14075702	-81.00782495
824	Aim Enterprises	11/4/2006	Active	Irrigation	4	94	115	29.13919661	-80.98953318
834	Louise Pruitt	11/15/1986	Active	Domestic	0	0	115	29.14075702	-81.00782495
925	McPhee	2/3/1997	Active	Irrigation	2	4	115	29.14075702	-81.00782495
937	Miller	11/27/1985	Active	Domestic	0	0	115	29.1287243	-80.98501298
980	Doyle Martin	6/8/1991	Active	Irrigation	0	0	115	29.1488911	-81.00694187
183	William Morrell	6/5/1992	Active	Irrigation	2	0	114	29.12583248	-80.99710329
324	Mr. Silin	9/12/1988	Active	Irrigation	0	0	114	29.14075702	-81.00782495
778	Jeffrey & Chery / Wheatley	9/13/2000	Active	Irrigation	4	84	114	29.14075702	-81.00782495
325	William C. Sparks	9/15/1988	Active	Irrigation	0	0	113	29.1287243	-80.98501298
879	Tony Alastra	6/21/1989	Active	Irrigation	0	0	113	29.127655	-81.00178891
167	Parent	4/11/1996	Active	Irrigation	2	0	112	29.12272083	-80.99383875
387	Bernard R & Marie H Parent	4/11/1996	Active	Irrigation - Nursery	2	88	112	29.12713664	-80.99384298
4	0	12/10/2002	Active	Irrigation	4	91	110	29.14075702	-81.00782495
14	JOHN WILSON	2/6/2001	Active	Irrigation	2	86	110	29.12901608	-80.99570934
22	0	2/17/2001	Active	Irrigation	2	110	110	29.14075702	-81.00782495
24	PETER ADAMS	2/6/2001	Active	Irrigation	0	0	110	29.14075702	-81.00782495
29	Guess	5/4/1998	Active	Irrigation	6	93	110	29.14555399	-80.99834848
35	Dunlawton Hills Homewood	1/27/1997	Active	Irrigation	2	91	110	29.13095862	-80.99869509
38	Johnson Group	8/14/1998	Active	Irrigation	2	85	110	29.14075702	-81.00782495
43	Johnson Group	9/23/1998	Active	Irrigation	2	88	110	29.14075702	-81.00782495
45	Reed/Tunney	10/13/1997	Active	Irrigation	2	91	110	29.12261039	-80.99612434
62	Paul Elliott	6/20/1998	Active	Irrigation	0	0	110	29.14075702	-81.00782495
74	Johnson Group	2/12/1997	Active	Irrigation	2	84	110	29.14075702	-81.00782495
86	Mr Briand	11/12/1997	Active	Irrigation	2	91	110	29.12761855	-81.00117187
87	Thornokg Robsor	1/3/1997	Active	Irrigation	2	88	110	29.127655	-81.00178891
89	Jhacker	1/9/1997	Active	Irrigation	2	95	110	29.12539181	-80.9953676
95	Antonio Enterprises	9/7/2006	Active	Irrigation	4	88	110	29.127655	-81.00178891
99	Confidential Data F.S.	9/11/2002	Active	Irrigation	2	85	110	29.127655	-81.00178891
127	Humbert Builders	7/6/2005	Active	Irrigation	2	89	110	29.14075702	-81.00782495
146	R. J. DeFilippo Inc.	6/28/1994	Active	Irrigation	2	0	110	29.14075702	-81.00782495
148	James A. Atwell	8/30/1994	Active	Irrigation	6	0	110	29.14075702	-81.00782495
157	David Austin	6/10/1994	Active	Irrigation	0	0	110	29.14075702	-81.00782495
160	Ryan La Roche	2/28/1994	Active	Irrigation	0	0	110	29.14075702	-81.00782495
162	Jim Paytas Construction Inc.	1/18/1994	Active	Irrigation	2	0	110	29.14075702	-81.00782495
179	Mike Sallase	1/29/1992	Active	Irrigation	2	0	110	29.127655	-81.00178891
184	Jim Hurst	5/12/1992	Active	Irrigation	2	0	110	29.127655	-81.00178891
185	Indigo Group	12/8/1992	Active	Irrigation	2	0	110	29.12604832	-80.99498089
186	Herman Estes	4/1/1992	Active	Irrigation	2	0	110	29.12204633	-80.99702235
187	Tyner, Dean	5/16/1992	Active	Irrigation	2	0	110	29.12280177	-80.99702235
188	Indigo Groupe Ltd	4/15/1992	Active	Irrigation	2	0	110	29.12322333	-80.99537775
196	Rhodes, Eugene E. Jr.	4/27/1992	Active	Irrigation	2	0	110	29.14112095	-80.99445928
197	W M Powell	3/16/1992	Active	Irrigation	0	0	110	29.14075702	-81.00782495
207	Paul F. Kammerer	6/1/1993	Active	Irrigation	2	0	110	29.12608429	-80.99692342
208	Rtc For American Pioneer	3/30/1993	Active	Irrigation	2	0	110	29.12605731	-80.9947021
210	Mccarty, Thomas	6/24/1994	Active	Irrigation	2	0	110	29.12436659	-80.99623095
211	Michael J. Wallin	8/26/1993	Active	Irrigation	4	0	110	29.12388994	-80.99621295
213	Kenneth Nicoletti	5/15/1994	Active	Irrigation	3	0	110	29.12462739	-80.9953586
214	A. Reellig	2/2/1994	Active	Irrigation	2	0	110	29.12386297	-80.996159

227	Michael Malachuk	5/9/1995	Active	Irrigation	4	0	110	29.12459142	-80.99529565
230	Gerald Cook	5/21/1991	Active	Irrigation	0	0	110	29.14075702	-81.00782495
232	John Brant	6/27/1991	Active	Irrigation	0	0	110	29.14075702	-81.00782495
237	Maria Billault	5/29/1991	Active	Irrigation	2	0	110	29.1248792	-80.99704034
245	Wendell Smith	3/22/1993	Active	Irrigation	2	0	110	29.127655	-81.00178891
246	Indigo Group Ltd	7/16/1993	Active	Irrigation	2	0	110	29.12359317	-80.9970853
252	Indigo Group	3/1/1993	Active	Irrigation	2	0	110	29.127655	-81.00178891
253	Joseph Ianchello	4/21/1993	Active	Irrigation	2	0	110	29.12531987	-80.99530464
259	Jim Paytas Construction Inc.	10/20/1993	Active	Irrigation	2	0	110	29.14075702	-81.00782495
260	Defillipo	11/16/1993	Active	Irrigation	2	0	110	29.14075702	-81.00782495
263	0	10/8/1993	Active	Irrigation	2	0	110	29.14075702	-81.00782495
269	Bill Humbert	7/25/2008	Active	Irrigation	2	0	110	29.14075702	-81.00782495
271	Fred Allen	3/21/2008	Active	Irrigation	2	0	110	29.14075702	-81.00782495
285	American Pioneer Fed Sav Bank	12/26/1990	Active	Irrigation	0	0	110	29.127655	-81.00178891
309	The Cargill	4/18/1986	Active	Irrigation	0	0	110	29.14075702	-81.00782495
316	Sam Vitke	8/26/1986	Active	Irrigation	0	0	110	29.14075702	-81.00782495
394	Guess	5/4/1998	Active	Irrigation - Landscape	4	93	110	29.14490652	-80.99710752
432	Seagate Homes	5/10/2000	Active	Irrigation	2	123	110	29.14075702	-81.00782495
446	John A. Lomartire	1/23/1992	Active	Irrigation	2	0	110	29.127655	-81.00178891
454	0	11/17/2020	Active	Irrigation - Landscape	4	90	110	29.13679772	-80.98662289
465	RAY ANDERSON	8/5/2003	Active	Irrigation	2	90	110	29.14075702	-81.00782495
472	Jayson Ness	7/24/2002	Active	Irrigation	2	84	110	29.14075702	-81.00782495
479	Wilding	10/13/1993	Active	Irrigation	2	0	110	29.12297264	-80.99383875
480	Indigo Group Ltd	10/28/1993	Active	Irrigation	0	0	110	29.12273881	-80.9937758
505	Indigo Group	12/11/1992	Active	Irrigation	2	0	110	29.1240878	-80.9970943
507	Raymond Hoffman	6/26/1992	Active	Irrigation	2	0	110	29.12335035	-80.99649175
523	Vorhies	7/30/1996	Active	Irrigation - Landscape	2	92	110	29.12499334	-80.99381052
535	0	1/0/1900	Proposed	Irrigation - Landscape	4	90	110	29.13017142	-80.99841269
549	Johnson Groop	10/21/1998	Active	Irrigation	2	110	110	29.14075702	-81.00782495
571	Harold S. Rees	4/27/1993	Active	Irrigation	2	0	110	29.14075702	-81.00782495
576	Bohran Peter & Shering	5/26/1993	Active	Irrigation	2	0	110	29.12210929	-80.99598813
593	Emanuel F. Wachtel	7/30/1993	Active	Irrigation	0	0	110	29.12584147	-80.99619497
594	Macdonald, Cameron	5/31/1994	Active	Irrigation	4	0	110	29.12508604	-80.99530464
598	Durlawton Hills Homeowners Assoc	1/20/1995	Active	Irrigation	0	0	110	29.127655	-81.00178891
634	Raymond Downs	3/4/1994	Active	Irrigation	0	0	110	29.14075702	-81.00782495
637	Jerry L. Columbus	4/14/1994	Active	Irrigation	0	0	110	29.14075702	-81.00782495
639	Jim Paytas Construction	9/20/1994	Active	Irrigation	0	0	110	29.14075702	-81.00782495
640	Paytas Homes Inc.	9/28/1994	Active	Irrigation	5	0	110	29.14075702	-81.00782495
646	Tompkins Investment Group Inc.	1/18/1994	Active	Irrigation	2	0	110	29.14075702	-81.00782495
660	Manes Calco/kliss	10/19/1993	Active	Irrigation	2	0	110	29.12493316	-80.99387472
662	Kemp	2/11/1993	Active	Irrigation	2	0	110	29.12340431	-80.99590719
663	Carol T. Stewart	3/20/1993	Active	Irrigation	2	0	110	29.12433961	-80.9970943
664	H & J Dev Co Inc.	11/29/1993	Active	Irrigation	2	0	110	29.14075702	-81.00782495
679	Duxlawton Hills Homeowners Assoc	1/20/1995	Active	Irrigation	0	0	110	29.13162411	-80.99936958
688	Drtvest Corst One	5/13/1994	Active	Irrigation	4	0	110	29.12469034	-80.99386573
693	American Pioneer Fed Sav Bank	12/26/1990	Active	Irrigation - Landscape	2	88	110	29.12241898	-80.99503652
694	Bloomquist	10/24/1996	Active	Irrigation - Landscape	2	87	110	29.12761855	-81.00117187
728	Passino	2/19/1993	Active	Irrigation	2	0	110	29.12371008	-80.99384774
744	David Butters	8/10/1994	Active	Irrigation	0	0	110	29.14075702	-81.00782495
745	Gordon B Zicker	4/15/1992	Active	Irrigation	2	0	110	29.12918695	-80.99565538
748	Wright Roy	4/28/1994	Active	Irrigation	4	0	110	29.12485222	-80.99616799
754	Roger Desruisseux	11/12/1993	Active	Irrigation	2	0	110	29.12677677	-80.99452223
767	JOHN PHANCO	12/13/2001	Active	Irrigation	4	86	110	29.15035699	-80.99105085
776	Robert R. Svahn	7/30/1993	Active	Irrigation	2	0	110	29.12385397	-80.99528666
779	Jorge Delmanzano	5/1/2000	Active	Irrigation	2	87	110	29.12609328	-80.99639282
785	Stolar Cyr	4/30/1999	Active	Irrigation	2	85	110	29.127655	-81.00178891
789	Johnson Group	9/23/1998	Active	Irrigation	2	86	110	29.14075702	-81.00782495
794	Bloomquist	10/24/1996	Active	Irrigation	2	0	110	29.13279323	-80.99897388
811	Paytas-curry	10/5/1992	Active	Irrigation	0	0	110	29.14075702	-81.00782495
829	Indigo Group Ltd	3/9/1993	Active	Irrigation	2	0	110	29.12284673	-80.9970853
833	Duxlawton Hills Homeowners Assoc	1/20/1995	Active	Irrigation	0	0	110	29.13162411	-80.99936958
838	ZBIGNIEW JEZIORO	8/30/2001	Active	Other	2	84	110	29.12396189	-80.99386573
846	Bon-Fleur-Dave	4/30/1999	Active	Other/Unknown	2	85	110	29.12761855	-81.00117187
848	Johnson Group	9/23/1998	Active	Irrigation	2	86	110	29.14075702	-81.00782495
864	Alan McKenzie	4/4/2000	Active	Irrigation	2	84	110	29.14075702	-81.00782495
866	Confidential Data F.S.	7/24/2002	Active	Irrigation	2	85	110	29.127655	-81.00178891
886	Peter L & Shirley J	5/26/1993	Active	Irrigation	2	0	110	29.127655	-81.00178891
887	James Porter	4/23/1993	Active	Irrigation	2	0	110	29.127655	-81.00178891
893	Raymond Vandebogart	6/26/1992	Active	Irrigation	2	0	110	29.12579651	-80.99379378
894	Vorhies	7/30/1996	Active	Irrigation	2	0	110	29.12496913	-80.99381177
895	Indigo Group Ltd	4/15/1992	Active	Irrigation	2	0	110	29.12303533	-80.99521964
906	Patrick Anderson	7/1/1998	Active	Irrigation	0	0	110	29.14075702	-81.00782495
922	Cardwell Baggett & Summers	5/8/2015	Active	Irrigation - Landscape	4	90	110	29.14729539	-80.98936305
950	Moldera, Mark	4/22/1994	Active	Irrigation	0	0	110	29.14075702	-81.00782495
951	Wirt Z Burger	11/1/1996	Active	Irrigation	2	0	110	29.14075702	-81.00782495
961	Indigo Group Ltd	3/15/1993	Active	Irrigation	2	0	110	29.12234311	-80.9970853
966	Confidential Data	9/11/2002	Active	Other	2	85	110	29.127655	-81.00178891
972	Hurst	10/20/1993	Active	Irrigation	2	0	110	29.12443853	-80.99386573
979	FRANK & NANCY FERRARO	8/18/2001	Active	Irrigation	2	110	110	29.15084263	-81.00168084
145	Jim Paytas Construction Inc.	4/18/1994	Active	Irrigation	0	0	109	29.14075702	-81.00782495
452	George Johnson	10/13/1993	Active	Irrigation	2	0	109	29.1458208	-80.98937391
509	Dicaualucci, Ed	4/27/1994	Active	Irrigation	4	0	108	29.12560765	-80.99704933
587	Grimard	3/12/1996	Active	Irrigation	2	0	107	29.14075702	-81.00782495
687	Liolkowski	3/18/1994	Active	Irrigation	4	0	107	29.12344928	-80.99378479
493	Thaddeus Ramenda	10/22/1990	Active	Irrigation	0	0	106	29.14075702	-81.00782495

495	Tompkins Investment Group Inc.	12/10/1990	Active	Irrigation	0	0	106	29.14075702	-81.00782495
612	Tompkins Investment Group Inc	12/27/1990	Active	Irrigation	0	0	106	29.14075702	-81.00782495
78	Ras Poli	10/28/1998	Active	Irrigation	2	88	105	29.1394662	-80.994828
129	Lenny Destefano	1/25/2006	Active	Irrigation	2	91	105	29.13262446	-80.99077917
231	Robert Carpenter	4/26/1991	Active	Irrigation	0	0	105	29.14075702	-81.00782495
244	Jim Hurst	6/8/1993	Active	Irrigation	2	0	105	29.127655	-81.00178891
247	Indigo Group, Ltd	11/19/1993	Active	Irrigation	2	0	105	29.12247801	-80.99438734
577	Indigo Group, Ltd	11/19/1993	Active	Irrigation	2	0	105	29.12324243	-80.99378479
618	Watson Realty	4/11/1988	Active	Irrigation	0	0	105	29.127655	-81.00178891
661	Indigo Group Ltd	11/17/1993	Active	Irrigation	2	0	105	29.1263361	-80.99525069
818	Indigo Group Ltd	11/17/1993	Active	Irrigation	2	0	105	29.12470833	-80.99380278
896	Franklin Richey	3/16/1992	Active	Irrigation	0	0	105	29.14075702	-81.00782495
949	Robert Hartman	3/2/1994	Active	Irrigation	0	0	105	29.14075702	-81.00782495
474	Johnson Groop Lot #31	1/4/2000	Active	Irrigation	2	123	103	29.14075702	-81.00782495
152	Paytas Construction	11/18/1992	Active	Irrigation	0	0	102	29.14075702	-81.00782495
717	Fred Brock	4/27/1992	Active	Irrigation	0	0	102	29.14075702	-81.00782495
970	Interwest Construction	3/21/1994	Active	Irrigation	4	0	101	29.12522993	-80.99380278
193	Indigo Group Ltd	5/29/1992	Active	Irrigation	2	0	100	29.12511302	-80.99617699
206	Wierzbicki	10/13/1994	Active	Irrigation	4	0	100	29.12517938	-80.99387472
209	Kennedy John	2/8/1994	Active	Irrigation	4	0	100	29.12435759	-80.99616799
212	Detervest Construction	3/22/1994	Active	Irrigation	2	0	100	29.12398887	-80.99380278
248	Eugene W Moss	6/24/1993	Active	Irrigation	2	0	100	29.127655	-81.00178891
251	Lewis	12/2/1993	Active	Irrigation	2	0	100	29.12367411	-80.99534961
336	Tompkins Investment Group	9/16/1990	Active	Irrigation	0	0	100	29.14075702	-81.00782495
473	Kip Morse	2/15/2000	Active	Other/Unknown	2	94	100	29.14299905	-80.99091903
508	Clifford Strozier	2/24/1994	Active	Irrigation	2	0	100	29.12557168	-80.99711228
553	ZBIGNIEW & URSULA JEZIORO	6/28/2001	Active	Irrigation	2	86	100	29.12396189	-80.99386573
595	Frank D. Audette	1/21/1994	Active	Irrigation	0	0	100	29.13014923	-80.99526867
666	Dale Huber	3/17/1991	Active	Irrigation	0	0	100	29.14075702	-81.00782495
668	John Plett	7/15/1991	Active	Irrigation	0	0	100	29.14075702	-81.00782495
686	Deranger, Joseph	2/4/1994	Active	Irrigation	0	0	100	29.12413276	-80.996159
781	Jannes Wilkinson	8/23/2006	Active	Irrigation	2	87	100	29.1440396	-81.00284223
923	Clyde Lee Lilly	5/5/1998	Active	Irrigation - Landscape	2	88	100	29.12510742	-80.99704257
934	Jerome Unatin	11/23/1999	Active	Other/Unknown	4	90	100	29.14326134	-80.98896442
986	Drtewret Const	6/27/1994	Active	Irrigation	2	0	100	29.127655	-81.00178891
104	Jerome Bartow	5/28/2002	Active	Other	2	84	98	29.1244835	-81.00112326
52	Viola Kline?	5/9/1999	Active	Irrigation	2	96	96	29.13143526	-80.99454921
775	Barnett Bank	10/24/1996	Active	Irrigation	2	0	95	29.12748864	-81.00491374
968	Discount Auto Parts Lnc	9/8/1994	Active	Irrigation	2	0	95	29.12748864	-81.00491374
128	Lenny Destefano	1/25/2006	Active	Other/Unknown	2	90	90	29.13262446	-80.99077917
66	Geraldine Correia	9/23/1998	Active	Irrigation	2	88	88	29.12588644	-80.9952327
44	Hanold Rees	3/18/1997	Active	Irrigation	2	87	87	29.13145324	-80.9962939
46	Ronald Castle	4/1/1999	Active	Irrigation	2	87	87	29.127655	-81.00178891
115	Sugar Mill	7/12/2000	Active	Irrigation	4	140	87	29.14083317	-80.99498988
786	Robert Barreiro	2/26/1999	Active	Irrigation	2	87	87	29.12486121	-80.9953586
50	Edward Sipe	3/10/1999	Active	Irrigation	2	85	85	29.14075702	-81.00782495
510	Walters	5/11/1991	Active	Irrigation	2	0	80	29.14075702	-81.00782495
698	JJ LLC	12/4/2010	Abandoned	Irrigation - Landscape	0	0	80	29.1486691	-80.99460082
242	Harmon Jackson	7/14/1993	Active	Public Supply	0	0	61	29.1458208	-80.98937391
81	McCarthy	6/13/1999	Active	Irrigation	1.25	60	60	29.14444845	-81.005449
522	Kirk Robin	7/10/2013	Active	Irrigation - Landscape	2	40	60	29.14070072	-80.98981846
914	Humbert Builders	4/10/2012	Active	Irrigation - Landscape	2	50	60	29.14179133	-81.00748982
138	Robert Klenk	2/3/2007	Active	Monitoring	0	0	59	29.14334467	-81.01126274
554	ROBERT KLENK	6/13/2003	Active	Monitoring	2	39	59	29.14334467	-81.01126274
6	ROBERT KLENK	6/13/2003	Active	Monitoring	2	38	58	29.14334467	-81.01126274
620	John Bouweman	1/6/1986	Active	Irrigation	0	0	55	29.1287243	-80.98501298
117	Robert P Klenk	6/29/1999	Active	Monitoring	2	35	50	29.14334467	-81.01126274
820	Joe Lemay	10/3/1997	Active	Irrigation	2	50	50	29.13583674	-80.98745513
470	Robert Klenk	2/2/2007	Active	Monitoring	2	39	49	29.14334467	-81.01126274
133	Robert Klenk	1/31/2007	Active	Monitoring	2	38	48	29.14334467	-81.01126274
136	Larry Chestnut	12/20/2007	Active	Monitoring	2	38	48	29.14075702	-81.00782495
272	Larry Chestnut	12/20/2007	Active	Monitoring	2	0	48	29.14075702	-81.00782495
181	Mrs. Dehoda	5/12/1992	Active	Irrigation	2	0	47	29.12666885	-80.98461171
440	Lorraine Metakes	9/1/2011	Active	Irrigation - Landscape	2	25	45	29.13795404	-80.98809323
521	Ethel Brone	2/6/1986	Active	Irrigation	0	0	45	29.14555399	-80.99834848
560	Soncoast Builders	4/10/2007	Active	Irrigation	2	45	45	29.12178553	-80.99457619
782	Davis, Herb	10/2/2002	Active	Irrigation	2	45	45	29.14951953	-80.99422505
827	Larry Maday	7/20/1986	Active	Irrigation	0	0	45	29.14075702	-81.00782495
926	Ken Beanke	6/23/1999	Active	Irrigation	2	45	45	29.1429684	-80.99103957
977	Bill Benjamin	4/20/2004	Active	Public Supply	0	0	45	29.13919661	-80.98953318
273	John Lasek	12/20/2007	Active	Monitoring	2	0	44	29.14075702	-81.00782495
559	John Lasek	12/20/2007	Active	Monitoring	2	39	44	29.14075702	-81.00782495
910	Evelyn Colby	5/18/1986	Active	Irrigation	0	0	44	29.1287243	-80.98501298
439	Chris Meralec	5/14/1998	Active	Domestic	2	38	43	29.12816635	-80.98583732
462	Chris Merater	5/14/1998	Active	Domestic	2	38	43	29.1287243	-80.98501298
485	William E Ford	8/27/1986	Active	Irrigation	0	0	43	29.1287243	-80.98501298
42	Spruce Creek Family Care	8/14/1997	Active	Other/Unknown	4	1	42	29.12748864	-81.00491374
491	Mr Doengers	4/6/1988	Active	Irrigation	0	0	42	29.14075702	-81.00782495
747	Le Blanc	3/22/1994	Active	Irrigation	2	0	42	29.1287243	-80.98501298
163	Hell Jr. Jesberg	2/18/1994	Active	Irrigation	0	0	41	29.13916031	-80.98750651
293	Tommy Highfill	3/16/1990	Active	Irrigation	0	0	41	29.1287243	-80.98501298
840	Powell	4/9/1996	Active	Irrigation	2	0	41	29.1287243	-80.98501298
13	MARINE PERFORMANCE	10/10/2001	Active	Irrigation	2	40	40	29.1489894	-80.99477064
225	Robert Grooms	6/24/1995	Active	Other/Unknown	1	0	40	29.14630105	-80.99259769
298	Fred Sexton	12/19/1986	Active	Irrigation	0	0	40	29.1287243	-80.98501298

350	Mr Carpenter	4/17/1988	Active	Irrigation	0	0	40	29.1458208	-80.98937391
355	Doris Jarvis	10/29/1989	Active	Irrigation	0	0	40	29.14555399	-80.99834848
471	Pryor Const	3/7/2007	Active	Irrigation	2	40	40	29.12723875	-80.98212977
484	Carl Mcdaniels	3/18/1990	Active	Irrigation	0	0	40	29.1287243	-80.98501298
676	Dorothy E. White	7/1/1993	Active	Irrigation	2	0	40	29.1242137	-80.98872161
696	Mary Beagan	8/14/1990	Active	Irrigation - Landscape	2	30	40	29.12406339	-80.98790493
798	Robert P Klenk	6/28/1999	Active	Monitoring	2	25	40	29.14334467	-81.01126274
801	Tyler Parks	9/1/1999	Active	Irrigation	0	0	40	29.14425959	-81.00474753
809	Krons Struc. Station	10/22/1991	Active	Monitoring	2	0	40	29.14342314	-80.98577703
380	Phil Birtwell	6/20/2012	Active	Irrigation - Landscape	0	34	39	29.1277805	-80.98461957
204	Adames, John P.	5/9/1994	Active	Irrigation	2	0	38	29.12522094	-80.98221951
357	Flair Service Inc.	3/31/1987	Active	Irrigation	0	0	38	29.14555399	-80.99834848
516	Elliott	11/3/1995	Active	Irrigation	0	0	38	29.14356222	-80.98501298
955	Paul & Margarette Girvin	7/10/2002	Active	Irrigation	2	38	38	29.12525691	-80.98303789
792	Rohr	1/10/1995	Active	Irrigation	0	0	36	29.14446643	-80.99808355
736	Hanstine	4/30/1997	Active	Other/Unknown	2	5	35	29.14155263	-81.001465
738	Janet A Hanstine	4/30/1997	Active	Irrigation - Landscape	2	20	35	29.14162427	-81.00146152
88	Rocco Brindisi	4/21/1997	Active	Irrigation	2	34	34	29.12387196	-80.99534961
100	Colleen Cunningham	10/29/2002	Active	Irrigation	2	34	34	29.14555461	-81.00461964
120	Joseph & Roxanne Coleman	9/13/2000	Active	Irrigation	2	34	34	29.13909748	-81.00541302
353	Tim Neiswonger	5/29/1986	Active	Irrigation	0	0	34	29.1458208	-80.98937391
883	D. G. Hull Corp.	7/13/1986	Active	Irrigation	0	0	34	29.14555399	-80.99834848
283	Mrs Cheung	5/3/1990	Active	Irrigation	0	0	33	29.1287243	-80.98501298
463	William R Merrell	10/22/1997	Active	Irrigation	0	0	33	29.14950711	-80.99501624
783	Dougless Perkins	10/22/1997	Active	Irrigation	0	0	33	29.15005122	-80.99522371
85	Vinson Pok Leony	4/30/1997	Active	Irrigation	2	32	32	29.12512202	-80.99623994
101	Joseph Yarbrough	4/9/2002	Active	Irrigation	2	32	32	29.14075702	-81.00782495
278	Mr. Mogane	6/27/1989	Active	Irrigation	2	0	32	29.14075702	-81.00782495
477	Joseph Yarbrough	3/20/2002	Active	Irrigation	2	32	32	29.14075702	-81.00782495
243	Gullo Phillip	10/20/1993	Active	Irrigation	0	0	31	29.14322537	-80.99945052
504	Tom Roberson	4/28/1992	Active	Irrigation	2	0	31	29.1287243	-80.98501298
837	Hubert Willing	8/23/2011	Active	Irrigation - Landscape	1.25	21	31	29.14279	-81.005783
2	R.R. DONNELLEY & SONS	10/23/2003	Active	Monitoring	1	30	30	29.15295039	-80.99482991
194	William Andrasco	9/22/1992	Active	Irrigation	0	0	30	29.14075702	-81.00782495
236	Barbara Nimmo	6/25/1991	Active	Irrigation	2	0	30	29.14334228	-80.99275057
382	Brendon Galbreath	2/27/2011	Active	Irrigation - Landscape	2	25	30	29.14177787	-80.9847383
518	Ac Truck Stop	7/11/1994	Active	Monitoring	2	0	30	29.1382791	-81.01122264
519	Donald Strong	7/14/1987	Active	Irrigation	0	0	30	29.1458208	-80.98937391
589	Indigo Group Ltd.,	6/4/1992	Active	Irrigation	2	0	30	29.127655	-81.00178891
674	Floyd Wiley	10/5/1992	Active	Irrigation	0	0	30	29.14075702	-81.00782495
725	Laney Kurt	6/17/1991	Active	Irrigation	2	0	30	29.13676824	-80.98678807
967	Jack Rhoades	8/24/2006	Active	Irrigation	0	0	30	29.14075702	-81.00782495
451	F P & L	3/3/1989	Active	Monitoring	2	0	29	29.1226506	-80.99302733
19	PATRICIA, COX	1/22/2001	Active	Irrigation	2	28	28	29.14075702	-81.00782495
21	JAMES FRANCE	9/5/2001	Active	Irrigation	2	28	28	29.14483515	-80.99034039
119	Rosalie Hertel	4/4/2000	Active	Irrigation	2	28	28	29.12703757	-80.98378433
218	Richard K. Martin	1/20/1995	Active	Irrigation	0	0	28	29.15282113	-80.99906381
437	NANCY ELLIS	6/4/2003	Active	Irrigation	2	28	28	29.14508719	-81.00154394
456	Charles Cameron	3/25/1998	Active	Irrigation	2	28	28	29.14299905	-80.99091903
476	Carolyn Atwood	3/17/2004	Active	Irrigation	2	28	28	29.1287243	-80.98501298
562	Carol Allison	7/18/2000	Active	Irrigation	2	28	28	29.14568951	-80.99652772
622	Charles Cameron	3/25/1998	Active	Irrigation - Landscape	2	20	28	29.14140028	-80.99012707
758	Simone Dearnley	5/2/1987	Active	Irrigation	0	0	28	29.1287243	-80.98501298
760	Joy Rosien	5/28/1986	Active	Irrigation	0	0	28	29.14075702	-81.00782495
816	Joseph Labosco	9/26/1995	Active	Irrigation	0	0	28	29.14301852	-80.98951301
861	William Mckey	5/23/2000	Active	Irrigation	2	28	28	29.14075702	-81.00782495
927	Jerome & Donna Bartow	5/28/2002	Active	Irrigation	2	28	28	29.1244835	-81.00112326
985	Henry Weissenfels	4/30/1994	Active	Irrigation	4	0	28	29.127655	-81.00178891
36	Jerry Curci	10/13/1998	Active	Irrigation	1.25	27	27	29.14555399	-80.99834848
97	Mark Osborn	12/21/2006	Active	Irrigation	2	27	27	29.1511484	-80.99818248
381	Sam Kassab Inc	7/11/2011	Active	Other/Unknown	2	22	27	29.14526372	-80.98855792
419	Jerry Curci	10/13/1998	Active	Irrigation - Landscape	1.25	10	27	29.13970604	-81.00450421
442	Robert Klenk	2/3/2007	Active	Monitoring	2	7	27	29.14334467	-81.01126274
468	RALPH WILLIAMS	3/15/2001	Active	Irrigation	0	0	27	29.12681274	-80.99405459
532	Sam Kassab, Inc.	7/11/2011	Active	Irrigation - Landscape	2	22	27	29.145391	-80.988717
797	Robert Klenk	1/31/2007	Active	Monitoring	2	7	27	29.14334467	-81.01126274
939	Paul Carrick	3/24/2015	Active	Irrigation - Landscape	2	20	27	29.13901292	-81.00419933
192	Carmen Gonzales	6/12/1992	Active	Irrigation	2	0	26	29.12803582	-80.99534062
221	Michael Gill	3/30/1995	Active	Irrigation	2	0	26	29.13640851	-81.00395612
240	Genung	6/11/1991	Active	Irrigation	2	0	26	29.127655	-81.00178891
291	Charlotte Cole	5/23/1988	Active	Domestic	0	0	26	29.127655	-81.00178891
292	William O' Connor	5/13/1988	Active	Domestic	0	0	26	29.127655	-81.00178891
367	Sam Kassab, Inc.	7/12/2011	Active	Irrigation - Landscape	2	24	26	29.145325	-80.98868
448	Genung	6/11/1991	Active	Irrigation	2	0	26	29.127655	-81.00178891
531	Steven Zine	6/26/2012	Active	Irrigation - Landscape	0	20	26	29.15109284	-80.99988295
615	Mario Attili	5/8/1986	Active	Irrigation	0	0	26	29.14555399	-80.99834848
971	Barbara Schmidt	4/2/1992	Active	Irrigation	2	0	26	29.1458208	-80.98937391
3	RICHARD LAPORTE	12/18/2002	Active	Domestic	2	20	25	29.15083363	-81.00097037
15	CLARK OFFICE BUILDING LTD	10/27/2001	Active	Irrigation	2	25	25	29.12799774	-80.9796812
70	Martha Delory	11/3/1998	Active	Irrigation	2	25	25	29.13306303	-81.01150143
98	Cino Alfonso D & Barbara A	9/16/2002	Active	Irrigation	2	25	25	29.13273028	-81.01060211
118	Robert P Klenk	6/29/1999	Active	Monitoring	2	10	25	29.14334467	-81.01126274
134	Robert Klenk	2/2/2007	Active	Monitoring	2	5	25	29.14334467	-81.01126274
140	W. Humbert	1/21/1994	Active	Domestic	2	0	25	29.14075702	-81.00782495
170	Reevs L Creuch	9/25/1996	Active	Irrigation	2	0	25	29.14060456	-80.98816685

228	Harold Dudley	9/27/1995	Active	Irrigation	2	0	25	29.12793689	-80.98221951
229	Harold Dudley	9/27/1995	Active	Other/Unknown	2	0	25	29.1287243	-80.98501298
342	0	12/31/1990	Active	Irrigation	2	0	25	29.14075702	-81.00782495
377	Fraternal Order of Eagles Inc	11/14/2012	Active	Irrigation - Landscape	2	20	25	29.12735918	-80.97961126
384	Martha Delosh	11/3/1998	Active	Irrigation - Landscape	2	0	25	29.13306749	-81.01156016
425	Brian Barker	3/19/2020	Active	Irrigation - Landscape	2	25	25	29.12904706	-80.98105514
429	Cino Alfonso D. & Barbara	12/23/2002	Active	Irrigation	2	25	25	29.1324335	-81.01054815
489	Joseph Contez	4/15/1986	Active	Irrigation	0	0	25	29.14075702	-81.00782495
555	Seagate Homes	6/20/2002	Active	Irrigation	2	20	25	29.15083363	-81.00121319
604	Christy Grasso	4/15/1986	Active	Domestic	0	0	25	29.14075702	-81.00782495
605	Ray Baynall	7/26/1986	Active	Irrigation	0	0	25	29.14075702	-81.00782495
616	Myrtle A. Sical	4/28/1987	Active	Irrigation	0	0	25	29.14555399	-80.99834848
630	Jerry Garrett	5/2/2012	Active	Irrigation - Landscape	2	20	25	29.148714	-80.99736146
692	JENNIFER P BENEDIX	4/27/2012	Active	Irrigation - Landscape	2	20	25	29.15192675	-81.00065149
716	Paytas Homes	1/0/1900	Active	Irrigation - Landscape	2	22	25	29.139543	-80.98942717
808	Susan Skelley	6/26/2012	Active	Irrigation - Landscape	0	19	25	29.1256015	-80.99625446
831	Fiore	8/4/1992	Active	Irrigation	2	0	25	29.12458242	-80.9970943
870	Billy Hurst	4/18/1989	Active	Irrigation	0	0	25	29.14075702	-81.00782495
876	Tompkins Investment Group	1/5/1990	Active	Irrigation	0	0	25	29.14075702	-81.00782495
878	Albert Keefer	8/10/1990	Active	Domestic	0	0	25	29.13919661	-80.98953318
974	Stevie Camlin	12/31/1990	Active	Irrigation	2	0	25	29.14075702	-81.00782495
976	Larry Clapp	5/2/2014	Abandoned	Other/Unknown	0	0	25	29.14043781	-80.9968241
982	Carl Thompson	5/8/1990	Active	Irrigation	0	0	25	29.127655	-81.00178891
1	JAMES FULCHER	5/23/2003	Active	Irrigation	2	24	24	29.15088759	-81.00118621
5	ROBERT KLENK	6/13/2003	Active	Monitoring	2	4	24	29.14334467	-81.01126274
8	RODGER GRIEB	9/13/1999	Active	Irrigation	2	24	24	29.15126531	-80.9998732
9	SPENCE FRANCES L ETALS	6/7/2001	Active	Irrigation	2	24	24	29.14396281	-80.998812
10	WALTER PHELPS	6/7/2001	Active	Irrigation	2	24	24	29.13070681	-80.98508835
11	MICHAEL & CATHY NIXON	6/7/2001	Active	Irrigation	1	24	24	29.13306783	-81.0029104
17	MIGUEL & MARIA RIVERA	5/9/2001	Active	Irrigation	2	24	24	29.13492463	-81.00501732
20	MILTON & THERESA GARDNER	9/21/2001	Active	Irrigation	2	24	24	29.13052694	-80.98508835
26	Fretwell Realty	3/25/1998	Active	Irrigation	2	24	24	29.15201174	-80.99818248
27	Mary Egbert	7/16/1997	Active	Irrigation	0	3	24	29.13144461	-80.98510652
33	James Beckmann	6/10/1998	Active	Irrigation	2	24	24	29.127655	-81.00178891
37	Ernest Hayes	6/10/1998	Active	Irrigation	2	24	24	29.14075702	-81.00782495
47	Heide Barcalow	3/10/1999	Active	Irrigation	2	24	24	29.127655	-81.00178891
49	Herman Prautzsch	8/10/1998	Active	Irrigation	2	24	24	29.1287243	-80.98501298
53	Donald Byrnes	6/10/1998	Active	Irrigation	2	24	24	29.1287243	-80.98501298
72	Georae Mais	5/19/1998	Active	Irrigation	2	24	24	29.14555399	-80.99834848
73	Jack Ransom	8/14/1998	Active	Irrigation	2	24	24	29.14075702	-81.00782495
77	Salvadore Gomez	12/15/1998	Active	Irrigation	2	24	24	29.13157915	-80.99843429
96	Arthur Detoro	9/10/2006	Active	Irrigation	2	16	24	29.14075702	-81.00782495
107	James Utter	8/12/1999	Active	Irrigation	2	24	24	29.1287243	-80.98501298
110	Norman Lashway	6/22/2000	Active	Irrigation	2	24	24	29.15185886	-80.99981924
112	Lesley Wright	4/30/1999	Active	Irrigation	2	24	24	29.14818063	-80.99726517
124	Anthony Bressi	6/22/2000	Active	Irrigation	2	24	24	29.1482405	-81.00620576
143	Berrien Becks Sr.	2/7/1994	Active	Irrigation	2	0	24	29.1426498	-81.00608752
154	Fretwell Pryor Construction	7/2/1996	Active	Irrigation	2	0	24	29.15181389	-80.99818248
155	Albert Pfeiefer	5/9/1996	Active	Irrigation	2	0	24	29.15295342	-80.99824151
164	Joanne Rusnak	6/15/1994	Active	Irrigation	0	0	24	29.14127819	-80.98635951
200	Fuller Michael	4/20/1992	Active	Irrigation	0	0	24	29.14640897	-81.00401908
215	Byron Skaggs	12/27/1995	Active	Irrigation	0	0	24	29.15121135	-80.99824543
216	Clinton Bush	5/25/1995	Active	Irrigation	0	0	24	29.15237147	-80.99824543
217	William Diamante	4/10/1995	Active	Irrigation	1	0	24	29.15197577	-80.99824543
219	Robert Sarosy	5/25/1994	Active	Irrigation	16	0	24	29.15166101	-80.99905482
277	Mr. Sparks	7/26/1987	Active	Irrigation	2	0	24	29.14075702	-81.00782495
289	Robert Deese	10/2/1989	Active	Irrigation	0	0	24	29.127655	-81.00178891
295	Harshaw Roger	2/12/1986	Active	Irrigation	0	0	24	29.1287243	-80.98501298
296	Marshall Rothermel	5/2/1986	Active	Irrigation	0	0	24	29.1287243	-80.98501298
320	Gordon Morris	7/14/1989	Active	Irrigation	0	0	24	29.14075702	-81.00782495
388	Paul & Michelina Hoad	6/28/1990	Active	Irrigation - Landscape	2	24	24	29.12739278	-80.98462054
392	Fretwell Realty	3/25/1998	Active	Irrigation - Landscape	2	3	24	29.15200758	-80.99819051
393	Nioleta McMakin	7/22/1998	Active	Irrigation - Landscape	2	20	24	29.1384264	-80.9847629
430	Mary Bratnyk	4/30/1999	Active	Irrigation	2	24	24	29.14717339	-80.99648276
431	Anna McGee	10/25/2000	Active	Irrigation	2	24	24	29.13919661	-80.98953318
435	David Kuenzli	7/2/1998	Active	Irrigation	2	24	24	29.13146224	-80.99676155
443	David E. Peckham	6/18/1993	Active	Irrigation	0	0	24	29.13353068	-81.00599758
450	Mc De Auge	7/14/1989	Active	Irrigation	0	0	24	29.14075702	-81.00782495
467	ROBERT KLENK	6/13/2003	Active	Monitoring	2	4	24	29.14334467	-81.01126274
475	John Gorman	7/13/2000	Active	Irrigation	2	24	24	29.1456985	-80.99135662
478	Judith Comfort	2/25/2002	Active	Irrigation	2	24	24	29.15185886	-80.99905482
540	Dwight Lewis	11/4/1999	Active	Irrigation - Landscape	2	16	24	29.13795404	-80.98809323
544	Charles Furlong	9/9/1997	Active	Irrigation	2	3	24	29.12592118	-80.98500814
552	Garces Rafael A	4/10/1997	Active	Irrigation	2	24	24	29.1425239	-80.99306533
590	Hung Dick Tzu Tien	9/28/1992	Active	Irrigation	0	0	24	29.13919661	-80.98953318
596	Katherine Tregoning	7/18/1995	Active	Irrigation	0	0	24	29.14075702	-81.00782495
619	Paul & Michelina Hoad	6/28/1990	Active	Irrigation	0	0	24	29.1287243	-80.98501298
642	Nick Lawler	2/15/1996	Active	Irrigation	2	0	24	29.15179591	-80.99824543
643	Fretwell / Pryor	1/16/1996	Active	Irrigation	2	0	24	29.15161256	-80.99819951
647	Vince Latorre	6/17/1993	Active	Irrigation	4	0	24	29.14139712	-80.98642952
656	James Monroe	9/8/1998	Active	Irrigation	2	24	24	29.1287243	-80.98501298
665	Fretwell Pryor Const	9/18/1995	Active	Irrigation	1	0	24	29.1511484	-80.99824543
669	Leslie Bartley	6/25/1991	Active	Irrigation	0	0	24	29.1315162	-80.99611403
675	Michael Castellano	7/19/1994	Active	Irrigation	2	0	24	29.13929533	-80.98726471
684	Robert Macmillian	3/27/1994	Active	Irrigation	4	0	24	29.127655	-81.00178891

685	Wayne Little	6/22/1994	Active	Irrigation	2	0	24	29.12388095	-80.99703134
689	John Johnson	3/2/1994	Active	Irrigation	4	0	24	29.12743327	-80.99702235
706	David E Peckham	6/18/1993	Active	Irrigation - Landscape	2	16	24	29.13352837	-81.00599316
751	Dora Beeley	7/13/2000	Active	Irrigation	2	24	24	29.13207722	-81.00518063
766	Berrien Beck Jr	2/7/1994	Active	Irrigation - Landscape	2	16	24	29.14263416	-81.00604862
771	Cora Dedrick	5/11/1999	Active	Irrigation	2	24	24	29.14571649	-80.99731013
780	Sam Laliberty	2/14/1987	Active	Irrigation	0	0	24	29.14075702	-81.00782495
800	Dwight Lewis	11/4/1999	Active	Irrigation	2	24	24	29.13919661	-80.98953318
822	Fretwell Pryor Const	5/10/1995	Active	Irrigation	2	0	24	29.15221859	-80.99818248
823	Nioleta Mc Makin	7/22/1998	Active	Irrigation	2	24	24	29.1458208	-80.98937391
839	JAMES ADKINS	8/21/2001	Active	Irrigation	2	24	24	29.13380047	-81.00160889
842	Tod Chismark	4/15/2002	Active	Irrigation	2	24	24	29.1458208	-80.98937391
843	Allendale Noksery	4/19/1987	Active	Irrigation	2	0	24	29.1287243	-80.98501298
853	Paul Fuok	9/23/1998	Active	Irrigation	2	24	24	29.12257915	-80.99387455
904	Joseph Gill	3/17/1999	Active	Irrigation	2	24	24	29.14344842	-80.9895882
928	Bruce Hanna	12/27/1995	Active	Irrigation	0	0	24	29.15218262	-80.99824543
933	Imogene Powell	5/14/2002	Active	Irrigation	2	24	24	29.12881823	-80.98506137
948	Chure Corp.	8/16/1989	Active	Irrigation	0	0	24	29.14555399	-80.99834848
965	Campbell	10/2/1996	Active	Irrigation	2	0	24	29.14209763	-80.98911861
199	Jim Paytas Construction	12/1/1992	Active	Irrigation	2	0	23	29.14075702	-81.00782495
311	Hall Const Co	9/9/1986	Active	Irrigation	0	0	23	29.14075702	-81.00782495
360	Frances Anderson	5/16/1986	Active	Domestic	0	0	23	29.14555399	-80.99834848
363	0	11/19/1985	Active	Other	0	0	23	29.14555399	-80.99834848
412	County of Volusia	1/13/2015	Active	Irrigation - Landscape	2	19	23	29.14341327	-80.98576641
490	W M Zabel	12/12/1986	Active	Irrigation	0	0	23	29.14075702	-81.00782495
572	Gayla Walker & James & Cleo Williams	6/17/1993	Active	Irrigation	2	0	23	29.15261429	-80.99900086
759	O. I. Doan	4/16/1986	Active	Irrigation	0	0	23	29.1287243	-80.98501298
962	Thomas Campagnari	3/16/1993	Active	Irrigation	2	0	23	29.14712843	-80.99802959
7	BEBBIE MARSHALL	4/3/2003	Active	Irrigation	2	22	22	29.14321638	-80.99781375
94	John W Renshaw	8/1/2006	Active	Irrigation	2	14	22	29.12625516	-80.98356849
103	Greg Rentz	2/2/2002	Active	Irrigation	2	18	22	29.14128283	-81.00177976
141	Robert Nisleit	2/9/1994	Active	Irrigation	0	0	22	29.1352304	-81.00605154
409	Karen Jackson	3/7/2014	Active	Irrigation - Landscape	2	14	22	29.13012148	-80.9857035
410	Karen Jackson	3/7/2014	Active	Irrigation - Landscape	2	14	22	29.13012148	-80.9857035
547	Terry McBride	3/11/1999	Active	Irrigation	2	22	22	29.14290161	-81.0009344
556	James Aines	8/4/2000	Active	Irrigation	2	22	22	29.13267632	-80.98536714
597	Julius Snider	6/20/1995	Active	Irrigation	0	0	22	29.14399554	-80.99954427
865	Imogene Powell	7/26/2000	Active	Irrigation	2	22	22	29.1313813	-80.9860776
880	Clouch Reality	3/9/1990	Active	Irrigation	0	0	22	29.1263361	-80.99874905
881	John Myers	5/16/1986	Active	Irrigation	0	0	22	29.1458208	-80.98937391
153	William Humbert	3/19/1994	Active	Irrigation	0	0	21	29.14075702	-81.00782495
168	Bennett	9/11/1996	Active	Irrigation	2	0	21	29.12861139	-81.0009344
365	Geo Scott	5/8/1995	Active	Irrigation	2	0	21	29.127655	-81.00178891
436	Calhoun John	4/25/1997	Active	Irrigation	0	0	21	29.14075702	-81.00782495
445	Conyers	9/9/1996	Active	Other/Unknown	2	0	21	29.12915098	-80.99309231
561	William Sanders	10/27/2005	Active	Irrigation	0	0	21	29.1431804	-81.00966682
623	Angela Schmidt	7/15/2013	Active	Irrigation - Landscape	2	17	21	29.15143316	-81.00224466
695	Max H Conyers	9/9/1996	Active	Irrigation - Landscape	2	2	21	29.129157	-80.99309245
813	Harkins	4/20/1999	Active	Irrigation	2	21	21	29.15263228	-80.99982823
819	Quap	1/9/1997	Active	Irrigation	2	21	21	29.127655	-81.00178891
917	Marilyn S Bennett	9/11/1996	Active	Irrigation - Landscape	2	0	21	29.12860646	-81.00098117
18	PATRICIA PRATT	5/26/2001	Active	Irrigation	2	16	20	29.13566207	-81.00267009
93	Gar Welding & Sebring Die	1/3/1997	Active	Irrigation	2	15	20	29.1458208	-80.98937391
299	Merle P. Ross	10/3/1986	Active	Domestic	0	0	20	29.1287243	-80.98501298
303	Jackie Lageman	2/14/1987	Active	Irrigation	0	0	20	29.14075702	-81.00782495
329	Alan Turton	6/4/1987	Active	Irrigation	0	0	20	29.14075702	-81.00782495
358	Mr. Belotti	2/19/1987	Active	Irrigation	0	0	20	29.14555399	-80.99834848
368	Sam Kassab, Inc.	7/12/2011	Active	Irrigation - Landscape	4	2	20	29.145259	-80.98868
369	F.O.E. INC	9/22/2011	Active	Irrigation - Landscape	0.008	16	20	29.12735918	-80.97961126
376	Robert Colvin	10/1/2012	Active	Other/Unknown	2	12	20	29.14633453	-80.9912925
434	Pomar	5/21/1997	Active	Irrigation	0	0	20	29.13383645	-81.00343452
548	Samuel Easler Brook	5/4/1999	Active	Irrigation	0	0	20	29.14075702	-81.00782495
648	Joseph Labosco	4/13/1996	Active	Domestic	2	0	20	29.1287243	-80.98501298
649	Mr Heron	8/10/1996	Active	Irrigation	1	0	20	29.127655	-81.00178891
719	Suran, Diane	8/5/1994	Active	Irrigation	2	0	20	29.13184894	-80.99713926
810	Fneddie Hinkel	6/1/1993	Active	Domestic	2	0	20	29.13506852	-81.00418095
898	John Nemec	5/3/1994	Active	Irrigation	2	0	20	29.13052694	-80.99636584
909	Clayton Rowe	10/24/1992	Active	Domestic	2	0	20	29.14075702	-81.00782495
915	F.O.E. INC.	9/22/2011	Active	Irrigation - Landscape	0.008	16	20	29.12816635	-80.98583732
361	George Hilbert	6/17/1986	Active	Irrigation	0	0	19	29.14555399	-80.99834848
458	Hondale	4/5/1999	Active	Irrigation	2	19	19	29.13101258	-80.9986861
481	Doug Clark	1/2/1986	Active	Irrigation	0	0	19	29.1287243	-80.98501298
802	Mike Wallen	6/18/2002	Active	Irrigation	2	15	19	29.1431804	-81.00482846
41	Lorine Butler	1/17/1997	Active	Irrigation	0	0	18	29.127655	-81.00178891
102	Jennifer Long	6/25/2002	Active	Irrigation	2	18	18	29.127655	-81.00178891
113	Lindridge	5/3/2000	Active	Irrigation	2	18	18	29.127655	-81.00178891
122	Didrio	5/3/2000	Active	Irrigation	2	18	18	29.127655	-81.00178891
274	John Lasek	12/20/2007	Active	Monitoring	2	0	18	29.14075702	-81.00782495
304	James Gelow	1/27/1987	Active	Irrigation	0	0	18	29.14075702	-81.00782495
310	Ethel K Dube	6/6/1986	Active	Irrigation	0	0	18	29.14075702	-81.00782495
558	Carol Kessler	5/20/2002	Active	Irrigation	2	18	18	29.12759515	-80.99622195
729	James G Edie	1/10/2013	Active	Irrigation - Landscape	2	13	18	29.14012145	-80.98374647
733	MARK CAMERON	7/10/2001	Active	Irrigation	2	18	18	29.13164709	-80.99834712
795	John laek	12/20/2007	Active	Monitoring	2	2	18	29.14075702	-81.00782495
855	0	12/10/2002	Active	Irrigation	1	13	18	29.13223997	-81.01050876

863	Robert K Lenk	6/30/1999	Active	Monitoring	2	3	18	29.14334467	-81.01126274
135	Larry Chestnut	12/20/2007	Active	Monitoring	2	2	17	29.14075702	-81.00782495
234	John A. Belanich, Trustee	11/15/1991	Active	Irrigation	2	0	17	29.1287243	-80.98501298
341	Tompkins Heritage Homes	2/15/1990	Active	Irrigation	0	0	17	29.14075702	-81.00782495
466	R.R.DONNELLEY & SONS	10/23/2003	Active	Monitoring	2	17	17	29.15295039	-80.99482991
608	Macknowski	7/15/1987	Active	Irrigation	0	0	17	29.14075702	-81.00782495
891	Larry Chestnut	12/20/2007	Active	Monitoring	2	0	17	29.14075702	-81.00782495
323	Mr Herbert	7/29/1988	Active	Domestic	0	0	16	29.14075702	-81.00782495
327	Manuel Longveira	10/2/1987	Active	Irrigation	0	0	16	29.14075702	-81.00782495
395	Robyn Adair	2/18/2014	Active	Irrigation - Landscape	2	13	16	29.14488398	-81.00012765
441	Robyn Adair	2/18/2014	Active	Irrigation - Landscape	2	13	16	29.14488398	-81.00012765
525	Chuck Hagan	11/20/1998	Active	Irrigation - Landscape	1.25	10	16	29.12816635	-80.98583732
920	Ciavarelli	3/31/1994	Active	Irrigation	2	0	16	29.127655	-81.00178891
935	Jerry Linssens	1/26/1991	Active	Irrigation	0	0	16	29.14075702	-81.00782495
362	June Sabourin	1/29/1986	Active	Irrigation	0	0	15	29.14555399	-80.99834848
383	Joseph DeSaluriers	10/4/2013	Active	Irrigation - Landscape	2	12	15	29.14210309	-81.01007203
427	Sam Kassab Inc	1/0/1900	Active	0	1.5	5	15	29.14528767	-80.98868139
565	County Of Volusia Ld Acqt Mgmt	3/12/2004	Active	Other	1.5	15	15	29.13135455	-80.98215372
691	F P & L Port Orange Service Center	7/17/1989	Active	Monitoring	2	0	15	29.1226506	-80.99302733
709	Shadow Llc	1/0/1900	Active	0	1.5	5	15	29.14556175	-80.98912933
713	Shadow Llc	1/0/1900	Active	0	1.5	5	15	29.14556175	-80.98912933
743	FPL	1/31/2006	Active	Monitoring	2	5	15	29.14014579	-81.0001787
768	David Alexander	4/23/1993	Active	Irrigation	0	0	15	29.1458208	-80.98937391
803	City of Port Orange	1/0/1900	Active	0	1.5	5	15	29.14671194	-80.98870419
828	Integrity Auto Sales Inc	10/18/2002	Active	Irrigation	2	15	15	29.13033808	-80.9817069
205	Russ's Citgo	9/16/1994	Active	Monitoring	4	0	14	29.1273518	-81.00516173
617	F P & L Port Orange Service Center	7/18/1989	Active	Monitoring	2	0	14	29.1226506	-80.99302733
348	F P & L	3/2/1989	Active	Monitoring	2	0	13	29.1226506	-80.99302733
354	Amerada Hess	6/21/1989	Active	Monitoring	0	0	13	29.14555399	-80.99834848
397	Circle K Stores Inc	9/17/2015	New Construction	Monitoring	0	3	13	29.13739153	-81.01072655
398	Circle K Stores Inc	9/17/2015	New Construction	Monitoring	0	3	13	29.13739153	-81.01072655
407	Circle K Stores Inc	9/17/2015	New Construction	Monitoring	0	3	13	29.13739153	-81.01072655
408	Circle K Stores Inc	9/17/2015	New Construction	Monitoring	0	3	13	29.13739153	-81.01072655
629	Circle K Stores Inc	9/17/2015	New Construction	Monitoring	0	3	13	29.13739153	-81.01072655
707	Circle K Stores Inc	9/17/2015	New Construction	Monitoring	0	3	13	29.13739153	-81.01072655
772	Circle K Stores Inc	9/17/2015	New Construction	Monitoring	0	3	13	29.13739153	-81.01072655
908	Circle K Stores Inc	9/17/2015	New Construction	Monitoring	0	3	13	29.13739153	-81.01072655
31	Elmer Mason	7/2/1997	Active	Monitoring	2	12	12	29.1458208	-80.98937391
347	Florida Power & Light	8/5/1986	Active	Monitoring	4	0	12	29.14051841	-80.99829039
370	HUNTLEY W T TRUSTEE	6/14/2011	Other/Unknown	Monitoring	2	2	12	29.14179133	-81.00748982
371	HUNTLEY W T TRUSTEE	6/14/2011	Other/Unknown	Monitoring	2	2	12	29.14179133	-81.00748982
372	HUNTLEY W T TRUSTEE	6/14/2011	Other/Unknown	Monitoring	2	2	12	29.14179133	-81.00748982
373	HUNTLEY W T TRUSTEE	6/14/2011	Other/Unknown	Monitoring	2	2	12	29.14179133	-81.00748982
374	HUNTLEY W T TRUSTEE	6/14/2011	Other/Unknown	Monitoring	2	2	12	29.14179133	-81.00748982
375	First Coast Energy	5/5/2009	Active	Monitoring	2	0	12	29.15019968	-80.99100921
378	Hess Realty Corp	2/6/2013	Active	Monitoring	2	2	12	29.13773735	-80.98464795
379	Hess Realty Corp	2/6/2013	Active	Monitoring	2	2	12	29.13773735	-80.98464795
405	3704 SOUTH NOVA ROAD LLC	10/30/2015	New Construction	Monitoring	0	2	12	29.13576067	-81.00972663
406	3704 SOUTH NOVA ROAD LLC	10/30/2015	New Construction	Monitoring	0	2	12	29.13576067	-81.00972663
426	Lindamar Inc	4/7/2020	Abandoned	Monitoring	1.5	2	12	29.14269281	-80.98651228
428	Shadow Llc	1/0/1900	Proposed	Monitoring	2	2	12	29.14580039	-80.98910917
464	Elmer Mason	7/2/1997	Active	Monitoring	2	12	12	29.1458208	-80.98937391
496	Florida Power & Light	8/5/1986	Active	Monitoring	4	0	12	29.14075702	-81.00782495
533	HUNTLEY W T TRUSTEE	6/22/2011	Other/Unknown	Monitoring	2	2	12	29.14179133	-81.00748982
534	AAO STORES LLC	1/0/1900	Proposed	Monitoring	2	2	12	29.14530336	-80.98869331
536	Lindamar Inc	11/5/2020	Active	Monitoring	2	2	12	29.14269983	-80.98650558
538	Community Redevelopment Agency	12/5/2016	Abandoned	Monitoring	0	0	12	29.14729539	-80.98936305
545	Elmer Mason	7/2/1997	Active	Monitoring	2	12	12	29.1458208	-80.98937391
583	A C Truck Stop	4/5/1994	Active	Monitoring	0	0	12	29.1382791	-81.01122264
613	Florida Power & Light	8/5/1986	Active	Monitoring	4	0	12	29.14051841	-80.99829039
621	Sam Kassab Inc	7/11/2011	Active	Other/Unknown	2	2	12	29.14526372	-80.98855792
624	HUNTLEY W T TRUSTEE	6/14/2011	Other/Unknown	Monitoring	2	2	12	29.14179133	-81.00748982
626	Community Redevelopment Agency	12/5/2016	Abandoned	Monitoring	0	0	12	29.14729539	-80.98936305
627	Hess Realty Corp	2/6/2013	Active	Monitoring	2	2	12	29.13773735	-80.98464795
654	3704 SOUTH NOVA ROAD LLC	10/30/2015	New Construction	Monitoring	0	2	12	29.13576067	-81.00972663
699	HUNTLEY W T TRUSTEE	6/14/2011	Other/Unknown	Monitoring	2	2	12	29.14179133	-81.00748982
701	Community Redevelopment Agency	12/5/2016	Abandoned	Monitoring	0	12	12	29.14729539	-80.98936305
715	Lindamar Inc	11/5/2020	Active	Monitoring	2	2	12	29.14261081	-80.98655789
722	Sam Kassab Inc	7/11/2011	Active	Other/Unknown	2	2	12	29.14526372	-80.98855792
724	HUNTLEY W T TRUSTEE	6/14/2011	Other/Unknown	Monitoring	2	2	12	29.14179133	-81.00748982
731	COMM REDEVELOPMENT AGENCY FOR	12/5/2016	Abandoned	Monitoring	0	0	12	29.14729539	-80.98936305
793	A C Track Stop	4/5/1994	Active	Monitoring	0	0	12	29.1382791	-81.01122264
796	Stanley Share Et. Al.	8/22/2006	Active	Monitoring	2	2	12	29.1287243	-80.98501298
805	HUNTLEY W T TRUSTEE	6/14/2011	Other/Unknown	Monitoring	2	2	12	29.14179133	-81.00748982
806	HUNTLEY W T TRUSTEE	6/14/2011	Other/Unknown	Monitoring	2	2	12	29.14179133	-81.00748982
825	City of Port Orange	1/0/1900	Proposed	Monitoring	2	2	12	29.14670697	-80.98870669
832	A C Truck Stop	4/5/1994	Active	Monitoring	2	0	12	29.1382791	-81.01122264
877	Circle K Corp	11/17/1987	Active	Monitoring	0	0	12	29.14075702	-81.00782495
892	A C Truck Stop	4/5/1994	Active	Monitoring	4	0	12	29.1382791	-81.01122264
903	HUNTLEY W T TRUSTEE	6/14/2011	Other/Unknown	Monitoring	2	2	12	29.14179133	-81.00748982
924	Community Redevelopment Agency	12/5/2016	Abandoned	Monitoring	0	0	12	29.14729539	-80.98936305
930	Shadow Llc	1/0/1900	Proposed	Monitoring	2	2	12	29.14554992	-80.98912647
953	Hess Realty Corp	2/6/2013	Active	Monitoring	2	2	12	29.13773735	-80.98464795
978	Florida Power & Light	8/5/1986	Active	Monitoring	0	0	12	29.14051841	-80.99829039
983	Hess Realty Corp	2/6/2013	Active	Monitoring	2	2	12	29.13773735	-80.98464795

764	Hughes Energy Inc.	3/24/1988	Active	Monitoring	0	0	11	29.14337634	-80.98729298
984	Ms. Helene B. Roberson	6/13/1995	Active	Monitoring	0	0	11	29.14555399	-80.99834848
241	Hughes Energy	1/31/1991	Active	Monitoring	0	0	10	29.13919661	-80.98953318
352	Exxon Service Stn	12/17/1986	Active	Monitoring	0	0	10	29.1458208	-80.98937391
723	Amerada Hess Corp	4/5/1989	Active	Other/Unknown	2	0	10	29.14555399	-80.99834848
938	Russ Gulf	12/29/1987	Active	Monitoring	2	0	10	29.1273518	-81.00516173
12	ANTHONY CERIBELLI	9/12/2001	Active	Irrigation	0	0	1	29.12523893	-80.99804758
60	Johnson Group	1/3/2000	Active	Irrigation	0	0	1	29.14075702	-81.00782495
563	Garry R Snyder	5/26/2000	Active	Irrigation	0	0	1	29.12863837	-80.99400962
34	Kelly, Park William	8/24/1999	Active	Irrigation	0	0	0	29.14555399	-80.99834848
90	Nancy Moore	1/31/1997	Active	Irrigation	0	0	0	29.127655	-81.00178891
108	Lrene Landeut	12/21/2000	Active	Irrigation	0	0	0	29.1287243	-80.98501298
176	Craig Bailey	12/19/1996	Active	Irrigation	0	0	0	29.14075702	-81.00782495
270	0	5/2/2008	Active	Monitoring	0	0	0	29.1458208	-80.98937391
275	0	5/6/2008	Active	Monitoring	0	0	0	29.1458208	-80.98937391
364	Glen Mc Carty	7/1/1991	Active	Irrigation	0	0	0	29.15240745	-80.99900086
500	0	5/6/2008	Active	Monitoring	0	0	0	29.1458208	-80.98937391
557	Thomas Andreano	10/18/2000	Active	Irrigation	0	0	0	29.1458208	-80.98937391
735	0	6/29/1999	Active	Irrigation	0	0	0	29.1458208	-80.98937391
746	Edmond J. Corrado	1/17/1992	Active	Irrigation	0	0	0	29.1458208	-80.98937391
860	Blig Value	11/16/2000	Active	Irrigation	0	0	0	29.1458208	-80.98937391
106	Ira R Horton	9/6/2002	Active	Domestic	2	63	0	29.14555399	-80.99834848
400	Sam Kassab Inc	6/3/2015	Abandoned	Other/Unknown	0	0	0	29.1471554	-80.98929402
401	Sam Kassab Inc	6/3/2015	Abandoned	Other/Unknown	0	0	0	29.1471554	-80.98929402
402	Sam Kassab Inc	6/3/2015	Abandoned	Other/Unknown	0	0	0	29.14594075	-80.98891746
403	Sam Kassab Inc	6/3/2015	Abandoned	Other/Unknown	0	0	0	29.14594075	-80.98891746
404	Sam Kassab Inc	6/3/2015	Abandoned	Other/Unknown	0	0	0	29.14656058	-80.98720708
413	Sam Kassab Inc	6/3/2015	Abandoned	Other	0	0	0	29.14656058	-80.98720708
414	Sam Kassab Inc	6/3/2015	Abandoned	Other	0	0	0	29.14656058	-80.98720708
415	Sam Kassab Inc	6/3/2015	Abandoned	Other	0	0	0	29.14656058	-80.98720708
416	Sam Kassab Inc	6/3/2015	Abandoned	Other	0	0	0	29.14594075	-80.98891746
417	Sam Kassab Inc	6/3/2015	Abandoned	Other	0	0	0	29.14594075	-80.98891746
418	Sam Kassab Inc	6/3/2015	Abandoned	Other	0	0	0	29.14594075	-80.98891746
421	Community Redevelopment Agency	12/5/2016	Abandoned	0	0	0	0	29.14729539	-80.98936305
455	Sam Kassab Inc	6/3/2015	Abandoned	Other	0	0	0	29.1471554	-80.98929402
469	Fla Power Light	5/18/2006	Active	Monitoring	2	5	0	29.14014579	-81.0001787
529	Sam Kassab Inc	6/3/2015	Abandoned	Other/Unknown	0	0	0	29.14656058	-80.98720708
530	Sam Kassab Inc	6/3/2015	Abandoned	Other/Unknown	0	0	0	29.14656058	-80.98720708
625	Community Redevelopment Agency	12/5/2016	Abandoned	0	0	0	0	29.14729539	-80.98936305
631	Sam Kassab Inc	6/3/2015	Abandoned	Other/Unknown	0	0	0	29.1471554	-80.98929402
632	Sam Kassab Inc	6/3/2015	Abandoned	Other/Unknown	0	0	0	29.14656058	-80.98720708
633	Sam Kassab Inc	6/3/2015	Abandoned	Other/Unknown	0	0	0	29.14656058	-80.98720708
700	Community Redevelopment Agency	12/5/2016	Abandoned	0	0	0	0	29.14729539	-80.98936305
703	Sam Kassab Inc	6/3/2015	Abandoned	Other/Unknown	0	0	0	29.14594075	-80.98891746
704	Sam Kassab Inc	6/3/2015	Abandoned	Other/Unknown	0	0	0	29.14656058	-80.98720708
705	Sam Kassab Inc	6/3/2015	Abandoned	Other	0	0	0	29.14656058	-80.98720708
737	Sam Kassab Inc	6/3/2015	Abandoned	Other	0	0	0	29.1471554	-80.98929402
753	Sam Kassab Inc	6/3/2015	Abandoned	Other	0	0	0	29.1471554	-80.98929402
804	Sam Kassab Inc	6/3/2015	Abandoned	Other	0	0	0	29.14656058	-80.98720708
901	Circle K Stores Inc	9/17/2015	New Construction	Monitoring	0	0	0	29.13739153	-81.01072655
902	Sam Kassab Inc	6/3/2015	Abandoned	Other/Unknown	0	0	0	29.14656058	-80.98720708
913	Sam Kassab Inc	6/3/2015	Abandoned	Other	0	0	0	29.14656058	-80.98720708
916	Sam Kassab Inc	6/3/2015	Abandoned	Other	0	0	0	29.14656058	-80.98720708
918	Community Redevelopment Agency	12/5/2016	Abandoned	0	0	0	0	29.14729539	-80.98936305
921	Community Redevelopment Agency	12/5/2016	Abandoned	0	0	0	0	29.14729539	-80.98936305
929	Sam Kassab Inc	6/3/2015	Abandoned	Other	0	0	0	29.14594075	-80.98891746
958	Sam Kassab Inc	6/3/2015	Abandoned	Other/Unknown	0	0	0	29.14594075	-80.98891746

ATTACHMENT B.

Effluent Water Quality Summary and Reports

RWP Annual Water Quality Report Summary

PRIMARY DRINKING WATER STANDARDS										
INORGANICS						VOLATILE ORGANICS				
Parameter	2019 Results	2020 Results	2021 Results	MCL	Units	Parameter	2019 Results	2020 Results	2021 Results	MCL Units
Antimony, Total Recoverable	<0.5	<0.5	<0.50	6	ug/L	1,1-dichloroethylene	<0.25	<0.25	<0.29	7 ug/L
Arsenic, Total Recoverable	0.51	<0.5	<0.50	10	ug/L	1,1,1-trichloroethane	<0.25	<0.25	<0.27	200 ug/L
Barium, Total Recoverable	1.8	2.7	1.5	2000	ug/L	1,1,2-trichloroethane	<0.25	<0.25	<0.28	5 ug/L
Beryllium, Total Recoverable	<1.6	<1.6	<0.17	4	ug/L	1,2-dichloroethane	<0.25	<0.25	<0.30	3 ug/L
Cadmium, Total Recoverable	<0.33	<0.33	<0.33	5	ug/L	1,2-dichloropropane	<0.25	<0.25	<0.44	5 ug/L
Chromium, Total Recoverable	<1.7	<1.7	<1.7	100	ug/L	1,2,4-trichlorobenzene	<0.41	<0.41	<0.35	70 ug/L
Cyanide, Free (amen. to chlorination)	7.7	5	5.7	200	ug/L	Benzene	<0.25	<0.25	<0.4	1 ug/L
Fluoride, Total (as F)	0.46	0.53	0.5	4	mg/L	Carbon tetrachloride	<0.25	<0.25	<0.28	3 ug/L
Lead, Total Recoverable	<0.5	<0.5	<0.22	15	ug/L	Cis-1,2-dichloroethene, Whole Water	<0.25	<0.25	<0.33	70 ug/L
Mercury, Total Recoverable	<0.1	<0.10	<0.09	2	ug/L	Dichloromethane (methylene chloride)	<0.44	<0.44	<0.44	5 ug/L
Nickel, Total Recoverable	<2.1	<2.1	3.1	100	ug/L	Ethylbenzene	<0.25	<0.25	<0.23	700 ug/L
Nitrogen, Nitrate, Total (as N)	3.6	0.59	4.9	10	mg/L	Monochlorobenzenes	<0.25	<0.25	<0.26	100 ug/L
Nitrogen, Nitrite, Total (as N)	<0.025	<0.5	<0.05	1	mg/L	1,2-dichlorobenzene	<0.25	<0.25	<0.26	600 ug/L
Nitrite plus Nitrate, Total 1 det. (as N)	3.6	<0.025	4.9	10	mg/L	1,4-dichlorobenzene	<0.25	<0.25	<0.30	75 ug/L
Selenium, Total Recoverable	<0.5	<0.5	<1.2	50	ug/L	Styrene, Total	<0.25	<0.25	<0.20	100 ug/L
Sodium, Total Recoverable	98	106	99.3	160	mg/L	Tetrachloroethylene	<0.25	<0.25	<0.26	3 ug/L
Thallium, Total Recoverable	<0.11	<0.11	<0.11	2	ug/L	Toluene	<0.25	<0.25	<0.28	1000 ug/L
MAXIMUM RESIDUAL DISINFECTANT LEVELS						1,2-trans-dichloroethylene	<0.25	<0.25	<0.27	100 ug/L
Chlorine (Cl ₂)	NA	NA	NA	4	mg/L	Trichloroethylene	<0.25	<0.25	<0.26	3 ug/L
Chloramines (Cl ₂)	NA	NA	NA	4	mg/L	Vinyl chloride	<0.39	<0.39	<0.12	1 ug/L
Chlorine Dioxide (ClO ₂)	NA	NA	NA	0.8	mg/L	Xylene	<0.25	<0.25	<0.11	10000 ug/L
SYNTHETIC ORGANICS						DISINFECTION BYPRODUCTS				
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)	<1.2	<1.3	<3.1	3 X 10 ⁻¹¹	ug/L	Bromate	NA	NA	NA	10 ug/L
2,4-dichlorophenoxyacetic acid	<0.081	<0.096	<0.096	70	ug/L	Chlorite	NA	NA	NA	1000 ug/L
Silvex	<0.16	<0.16	<0.053	50	ug/L	TTHM	0.107	0.0877	0.107	0.08 mg/L
Alachlor	<0.06	<0.2	<0.030	2	ug/L	HAA5	NA	NA	NA	60 ug/L
Atrazine	<0.075	<0.1	0.029	3	ug/L	RADIONUCLIDES				
Benzo(a)pyrene	<0.012	<0.02	<0.02	40	ug/L	Gross Alpha	<2.35	<2.97	1.4	15 pCi/L
Carbofuran	<0.25	<0.67	<0.59	0.2	ug/L	Radium 226 + Radium 228	<1.57	<1.557	<1.42	5 pCi/L
Chlordane (tech mix. and metabolites)	<0.045	<0.2	<0.035	2	ug/L	Uranium	NA	NA	NA	30 ug/L
Dalapon	11.7	4.4	5.4	200	ug/L	SECONDARY DRINKING WATER STANDARDS				
Bis(2-ethylhexyl)adipate	<0.37	<0.6	<0.37	400	ug/L	Aluminum, Total Recoverable	0.0224	0.0325	0.0332	0.2 mg/L
Bis (2-ethylhexyl) phthalate	<0.48	<0.6	<0.49	6	ug/L	Chloride (as Cl)	117	133	120	250 mg/L
Dibromochloropropane (DBCP)	<0.0064	<0.0064	<0.0065	0.2	ug/L	Iron, Total Recoverable	0.0615	0.144	0.0752	0.3 mg/L
Dinoseb, Whole Water, Recoverable	<0.16	<0.16	<0.16	7	ug/L	Copper, Total Recoverable	1.4	1.2	1.9	1000 ug/L
Diquat	<0.3	<0.16	<0.16	20	ug/L	Manganese, Total Recoverable	10.9	28.8	23.6	50 ug/L
Endothall	<9.0	<3.3	<3.3	100	ug/L	Silver, Total Recoverable	<1.0	<1.0	<1.0	100 ug/L
Endrin	<0.0038	<0.01	<0.0024	2	ug/L	Sulfate, Total	46.4	51.9	77.8	250 mg/L
Ethylene dibromide (1,2-dibromoethane)	<0.0075	<0.0075	<0.0076	0.2	ug/L	Zinc, Total Recoverable	55.9	61.2	46.3	5000 ug/L
Glyphosate	<0.042	<0.0042	<4.2	700	mg/L	pH	7.5	7.3	7.4	6.5-8.5 S.U.
Heptachlor	<0.0093	<0.04	<0.014	0.4	ug/L	TDS	463	465	488	500 mg/L
Heptachlor epoxide	<0.0067	<0.02	<0.0031	0.2	ug/L	Foaming Agents	<0.099	0.1	<0.11	0.5 mg/L
Hexachlorobenzene	<0.024	<0.1	<0.015	1	ug/L	Fluoride, Total (as F)	0.46	0.53	0.5	2 mg/L
Hexachlorocyclopentadiene	0.016	<0.1	<0.025	50	ug/L	Odor	NA	NA	NA	15 Pt-Co
Gamma BHC (Lindane)	<0.0034	<0.02	<0.0028	0.2	ug/L	Color	NA	NA	NA	3 TON
Methoxychlor	<0.056	<0.1	<0.024	40	ug/L	Quality Control Parameters: Values in bold exceed Drinking Water Maximum Contaminant Level NA = not analyzed				
Oxamyl (vydate)	<0.37	<0.44	<0.46	200	ug/L					
Pentachlorophenol	<0.03	<0.030	<0.014	1	ug/L					
Picloram in Whole Water Sample	<0.094	<0.094	<0.04	500	ug/L					
Polychlorinated Biphenyls (PCBs)	<0.076	<0.26	<0.044	0.5	ug/L					
Simazine in Whole Water	<0.045	<0.07	<0.041	4	ug/L					
Toxaphene	<0.58	<1.0	<0.69	3	ug/L					

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

PERMITTEE NAME: PORT ORANGE, CITY OF	PERMIT NUMBER: FL0020559
ADDRESS: 1000 City Center Circle Port Orange, FL 32129	LIMIT: FINAL REPORT: Annually FACILITY TYPE: DW GROUP: Domestic MONITORING GROUP: RWS-A
FACILITY: Port Orange WWTF	DESCRIPTION: Annual Reclaimed Water or Effluent Analysis
LOCATION: 817 Oak St Port Orange, FL 32127	
COUNTY: VOLUSIA	MONITORING PERIOD: From: 01/01/2021 To: 12/31/2021

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Antimony, Total Recoverable	Sample Measurement						<0.50		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 01268 P Add. Desc: (GWS = 6)* Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Arsenic, Total Recoverable	Sample Measurement						<0.50		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00978 P Add. Desc: (GWS = 10) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Barium, Total Recoverable	Sample Measurement						1.5		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 01009 P Add. Desc: (GWS = 2,000) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Beryllium, Total Recoverable	Sample Measurement						<0.17		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00998 P Add. Desc: (GWS = 4) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Cadmium, Total Recoverable PARM Code 01113 P Add. Desc: (GWS = 5) Mon. Site: RWS-A	Sample Measurement						<0.33		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Chromium, Total Recoverable PARM Code 01118 P Add. Desc: (GWS =100) Mon. Site: RWS-A	Sample Measurement						<1.7		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Cyanide, Free (amen. to chlorination) PARM Code 00722 P Add. Desc: (GWS = 200) Mon. Site: RWS-A	Sample Measurement						5.7		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Fluoride, Total (as F) PARM Code 00951 P Add. Desc: (GWS = 4.0/2.0) Mon. Site: RWS-A	Sample Measurement						0.50		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Lead, Total Recoverable PARM Code 01114 P Add. Desc: (GWS = 15) Mon. Site: RWS-A	Sample Measurement						<0.22		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Mercury, Total Recoverable	Sample Measurement						<0.09		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 71901 P Add. Desc: (GWS = 2) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Nickel, Total Recoverable	Sample Measurement						3.1		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 01074 P Add. Desc: (GWS = 100) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Nitrogen, Nitrate, Total (as N)	Sample Measurement						4.9		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00620 P Add. Desc: (GWS = 10) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Nitrogen, Nitrite, Total (as N)	Sample Measurement						<0.05		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00615 P Add. Desc: (GWS = 1) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Nitrite plus Nitrate, Total 1 det. (as N)	Sample Measurement						4.9		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00630 P Add. Desc: (GWS = 10) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Selenium, Total Recoverable PARM Code 00981 P Add. Desc: (GWS =50) Mon. Site: RWS-A	Sample Measurement						<1.2		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Sodium, Total Recoverable PARM Code 00923 P Add. Desc: (GWS = 160) Mon. Site: RWS-A	Sample Measurement						99.3		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Thallium, Total Recoverable PARM Code 00982 P Add. Desc: (GWS = 2) Mon. Site: RWS-A	Sample Measurement						<0.11		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
1,1-dichloroethylene PARM Code 34501 P Add. Desc: (GWS = 7) Mon. Site: RWS-A	Sample Measurement						<0.29		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
1,1,1-trichloroethane PARM Code 34506 P Add. Desc: (GWS = 200) Mon. Site: RWS-A	Sample Measurement						<0.27		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
1,1,2-trichloroethane PARM Code 34511 P Add. Desc: (GWS = 5) Mon. Site: RWS-A	Sample Measurement						<0.28		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
1,2-dichloroethane PARM Code 32103 P Add. Desc: (GWS = 3) Mon. Site: RWS-A	Sample Measurement						<0.30		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
1,2-dichloropropane PARM Code 34541 P Add. Desc: (GWS = 5) Mon. Site: RWS-A	Sample Measurement						<0.44		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
1,2,4-trichlorobenzene PARM Code 34551 P Add. Desc: (GWS = 70) Mon. Site: RWS-A	Sample Measurement						<0.35		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Benzene PARM Code 34030 P Add. Desc: (GWS = 1) Mon. Site: RWS-A	Sample Measurement						<0.4		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Carbon tetrachloride PARM Code 32102 P Add. Desc: (GWS = 3) Mon. Site: RWS-A	Sample Measurement						<0.28		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Cis-1,2-dichloroethene, Whole Water PARM Code 81686 P Add. Desc: (GWS = 70) Mon. Site: RWS-A	Sample Measurement						<0.33		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Dichloromethane (methylene chloride) PARM Code 03821 P Add. Desc: (GWS = 5) Mon. Site: RWS-A	Sample Measurement						<0.44		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Ethylbenzene PARM Code 34371 P Add. Desc: (GWS = 700) Mon. Site: RWS-A	Sample Measurement						<0.23		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Monochlorobenzenes PARM Code 34031 P Add. Desc: (GWS = 100) Mon. Site: RWS-A	Sample Measurement						<0.26		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
1,2-dichlorobenzene PARM Code 34536 P Add. Desc: (GWS = 600) Mon. Site: RWS-A	Sample Measurement						<0.26		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
1,4-dichlorobenzene PARM Code 34571 P Add. Desc: (GWS = 75) Mon. Site: RWS-A	Sample Measurement						<0.30		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Styrene, Total PARM Code 77128 P Add. Desc: (GWS = 100) Mon. Site: RWS-A	Sample Measurement						<0.20		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Tetrachloroethylene PARM Code 34475 P Add. Desc: (GWS = 3) Mon. Site: RWS-A	Sample Measurement						<0.26		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Toluene PARM Code 34010 P Add. Desc: (GWS = 1,000) Mon. Site: RWS-A	Sample Measurement						<0.28		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
1,2-trans-dichloroethylene PARM Code 34546 P Add. Desc: (GWS = 100) Mon. Site: RWS-A	Sample Measurement						<0.27		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Trichloroethylene PARM Code 39180 P Add. Desc: (GWS = 3) Mon. Site: RWS-A	Sample Measurement						<0.26		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Vinyl chloride PARM Code 39175 P Add. Desc: (GWS = 1) Mon. Site: RWS-A	Sample Measurement						<0.12		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Xylene PARM Code 81551 P Add. Desc: (GWS = 10,000) Mon. Site: RWS-A	Sample Measurement						<0.11		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) PARM Code 34675 P Add. Desc: (GWS = 3x10 ⁻⁵) Mon. Site: RWS-A	Sample Measurement						<3.1		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
2,4-dichlorophenoxyacetic acid PARM Code 39730 P Add. Desc: (GWS = 70) Mon. Site: RWS-A	Sample Measurement						<0.096		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Silvex PARM Code 39760 P Add. Desc: (GWS = 50) Mon. Site: RWS-A	Sample Measurement						<0.053		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Alachlor PARM Code 39161 P Add. Desc: (GWS = 2) Mon. Site: RWS-A	Sample Measurement						<0.030		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Atrazine PARM Code 39033 P Add. Desc: (GWS = 3) Mon. Site: RWS-A	Sample Measurement						0.029		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Benzo(a)pyrene PARM Code 34247 P Add. Desc: (GWS = 0.2) Mon. Site: RWS-A	Sample Measurement						<0.02		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Carbofuran PARM Code 81405 P Add. Desc: (GWS = 40) Mon. Site: RWS-A	Sample Measurement						<0.59		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Chlordane (tech mix. and metabolites) PARM Code 39350 P Add. Desc: (GWS = 2) Mon. Site: RWS-A	Sample Measurement						<0.035		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Dalapon PARM Code 38432 P Add. Desc: (GWS = 200) Mon. Site: RWS-A	Sample Measurement						5.4		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Bis(2-ethylhexyl)adipate PARM Code 77903 P Add. Desc: (GWS = 400) Mon. Site: RWS-A	Sample Measurement						<0.37		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Bis (2-ethylhexyl) phthalate PARM Code 39100 P Add. Desc: (GWS = 6) Mon. Site: RWS-A	Sample Measurement						<0.49		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dibromochloropropane (DBCP) PARM Code 82625 P Add. Desc: (GWS = 0.2) Mon. Site: RWS-A	Sample Measurement						<0.0065		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Dinoseb, Whole Water, Recoverable PARM Code 30191 P Add. Desc: (GWS = 7) Mon. Site: RWS-A	Sample Measurement						<0.16		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Diquat PARM Code 04443 P Add. Desc: (GWS = 20) Mon. Site: RWS-A	Sample Measurement						<0.16		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Endothall PARM Code 38926 P Add. Desc: (GWS = 100) Mon. Site: RWS-A	Sample Measurement						<3.3		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Endrin PARM Code 39390 P Add. Desc: (GWS = 2) Mon. Site: RWS-A	Sample Measurement						<0.0024		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Ethylene dibromide (1,2-dibromoethane)	Sample Measurement						<0.0076		0	1 Annually	Grab
PARM Code 77651 P Add. Desc: (GWS = 0.02) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Glyphosate	Sample Measurement						<4.2		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 79743 P Add. Desc: (GWS = 0.7) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Heptachlor	Sample Measurement						<0.014		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39410 P Add. Desc: (GWS = 0.4) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Heptachlor epoxide	Sample Measurement						<0.0031		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39420 P Add. Desc: (GWS = 0.2) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Hexachlorobenzene	Sample Measurement						<0.015		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39700 P Add. Desc: (GWS = 1) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Hexachlorocyclopentadiene	Sample Measurement						<0.025		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 34386 P Add. Desc: (GWS = 50) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Gamma BHC (Lindane)	Sample Measurement						<0.0028		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39782 P Add. Desc: (GWS = 0.2) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Methoxychlor	Sample Measurement						<0.024		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39480 P Add. Desc: (GWS = 40) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Oxamyl (vydate)	Sample Measurement						<0.46		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 38865 P Add. Desc: (GWS = 200) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Pentachlorophenol	Sample Measurement						<0.014		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39032 P Add. Desc: (GWS = 1) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Picloram in Whole Water Sample	Sample Measurement						<0.04		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39720 P Add. Desc: (GWS = 500) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Polychlorinated Biphenyls (PCBs)	Sample Measurement						<0.044		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39516 P Add. Desc: (GWS = 0.5) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Simazine in Whole Water	Sample Measurement						<0.041		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39055 P Add. Desc: (GWS = 4) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Toxaphene	Sample Measurement						<0.69		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39400 P Add. Desc: (GWS = 3) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Trihalomethane, Total by summation	Sample Measurement						0.107		0	1 Annually	Grab
PARM Code 82080 P Add. Desc: (GWS = 0.080) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Radium 226 + Radium 228, Total	Sample Measurement						<1.42		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 11503 P Add. Desc: (GWS = 5) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	pCi/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Alpha, Gross Particle Activity	Sample Measurement						1.40		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 80045 P Add. Desc: (GWS = 15) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	pCi/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Aluminum, Total Recoverable	Sample Measurement						0.0332		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 01104 P Add. Desc: (GWS = 0.2) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Chloride (as Cl)	Sample Measurement						120		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00940 P Add. Desc: (GWS = 250) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Iron, Total Recoverable	Sample Measurement						0.0752		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00980 P Add. Desc: (GWS = 0.3) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Copper, Total Recoverable PARM Code 01119 P Add. Desc: (GWS = 1,000) Mon. Site: RWS-A	Sample Measurement						1.9		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Manganese, Total Recoverable PARM Code 11123 P Add. Desc: (GWS = 50) Mon. Site: RWS-A	Sample Measurement						23.6		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Silver, Total Recoverable PARM Code 01079 P Add. Desc: (GWS = 100) Mon. Site: RWS-A	Sample Measurement						<1.0		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Sulfate, Total PARM Code 00945 P Add. Desc: (GWS = 250) Mon. Site: RWS-A	Sample Measurement						77.8		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Zinc, Total Recoverable PARM Code 01094 P Add. Desc: (GWS = 5,000) Mon. Site: RWS-A	Sample Measurement						46.3		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
pH	Sample Measurement						7.4		0	1 Annually	Grab
PARM Code 00400 P Add. Desc: (GWS = 6.5-8.5) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	s.u.		(1 Annually)	(Grab)
Solids, Total Dissolved (TDS)	Sample Measurement						488		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 70295 P Add. Desc: (GWS = 500) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Foaming Agents	Sample Measurement						<0.11		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 01288 P Add. Desc: (GWS = 0.5) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Christopher Wall	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Electronically Signed		TELEPHONE (386) 561-8863	SUBMITTED ON 12/02/2021	
☐ NO NEW NON-DOMESTIC WASTEWATER DISCHARGERS HAVE BEEN ADDED TO THE COLLECTION SYSTEM SINCE THE LAST RECLAIMED WATER OR EFFLUENT ANALYSIS WAS CONDUCTED.											

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

PERMITTEE NAME: PORT ORANGE, CITY OF	PERMIT NUMBER: FL0020559
ADDRESS: 1000 City Center Circle Port Orange, FL 32129	LIMIT: FINAL REPORT: Annually
	FACILITY TYPE: DW GROUP: Domestic
FACILITY: Port Orange WWTF	MONITORING GROUP: RWS-A
LOCATION: 817 Oak St Port Orange, FL 32127	DESCRIPTION: Annual Reclaimed Water or Effluent Analysis
COUNTY: VOLUSIA	MONITORING PERIOD: From: 01/01/2020 To: 12/31/2020

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Antimony, Total Recoverable	Sample Measurement						<0.5		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 01268 P Add. Desc: (GWS = 6)* Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Arsenic, Total Recoverable	Sample Measurement						<0.5		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00978 P Add. Desc: (GWS = 10) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Barium, Total Recoverable	Sample Measurement						2.7		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 01009 P Add. Desc: (GWS = 2,000) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Beryllium, Total Recoverable	Sample Measurement						<1.6		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00998 P Add. Desc: (GWS = 4) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Cadmium, Total Recoverable PARM Code 01113 P Add. Desc: (GWS = 5) Mon. Site: RWS-A	Sample Measurement						<0.33		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Chromium, Total Recoverable PARM Code 01118 P Add. Desc: (GWS =100) Mon. Site: RWS-A	Sample Measurement						<1.7		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Cyanide, Free (amen. to chlorination) PARM Code 00722 P Add. Desc: (GWS = 200) Mon. Site: RWS-A	Sample Measurement						5		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Fluoride, Total (as F) PARM Code 00951 P Add. Desc: (GWS = 4.0/2.0) Mon. Site: RWS-A	Sample Measurement						0.53		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Lead, Total Recoverable PARM Code 01114 P Add. Desc: (GWS = 15) Mon. Site: RWS-A	Sample Measurement						<0.5		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Mercury, Total Recoverable	Sample Measurement						<0.10		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 71901 P Add. Desc: (GWS = 2) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Nickel, Total Recoverable	Sample Measurement						<2.1		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 01074 P Add. Desc: (GWS = 100) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Nitrogen, Nitrate, Total (as N)	Sample Measurement						0.59		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00620 P Add. Desc: (GWS = 10) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Nitrogen, Nitrite, Total (as N)	Sample Measurement						<0.5		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00615 P Add. Desc: (GWS = 1) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Nitrite plus Nitrate, Total 1 det. (as N)	Sample Measurement						<0.025		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00630 P Add. Desc: (GWS = 10) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Selenium, Total Recoverable PARM Code 00981 P Add. Desc: (GWS =50) Mon. Site: RWS-A	Sample Measurement						<0.5		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Sodium, Total Recoverable PARM Code 00923 P Add. Desc: (GWS = 160) Mon. Site: RWS-A	Sample Measurement						106		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Thallium, Total Recoverable PARM Code 00982 P Add. Desc: (GWS = 2) Mon. Site: RWS-A	Sample Measurement						<0.11		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
1,1-dichloroethylene PARM Code 34501 P Add. Desc: (GWS = 7) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
1,1,1-trichloroethane PARM Code 34506 P Add. Desc: (GWS = 200) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
1,1,2-trichloroethane PARM Code 34511 P Add. Desc: (GWS = 5) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
1,2-dichloroethane PARM Code 32103 P Add. Desc: (GWS = 3) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
1,2-dichloropropane PARM Code 34541 P Add. Desc: (GWS = 5) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
1,2,4-trichlorobenzene PARM Code 34551 P Add. Desc: (GWS = 70) Mon. Site: RWS-A	Sample Measurement						<0.41		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Benzene PARM Code 34030 P Add. Desc: (GWS = 1) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Carbon tetrachloride PARM Code 32102 P Add. Desc: (GWS = 3) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Cis-1,2-dichloroethene, Whole Water PARM Code 81686 P Add. Desc: (GWS = 70) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Dichloromethane (methylene chloride) PARM Code 03821 P Add. Desc: (GWS = 5) Mon. Site: RWS-A	Sample Measurement						<0.44		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Ethylbenzene PARM Code 34371 P Add. Desc: (GWS = 700) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Monochlorobenzenes PARM Code 34031 P Add. Desc: (GWS = 100) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
1,2-dichlorobenzene PARM Code 34536 P Add. Desc: (GWS = 600) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
1,4-dichlorobenzene PARM Code 34571 P Add. Desc: (GWS = 75) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Styrene, Total PARM Code 77128 P Add. Desc: (GWS = 100) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Tetrachloroethylene PARM Code 34475 P Add. Desc: (GWS = 3) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Toluene PARM Code 34010 P Add. Desc: (GWS = 1,000) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
1,2-trans-dichloroethylene PARM Code 34546 P Add. Desc: (GWS = 100) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Trichloroethylene PARM Code 39180 P Add. Desc: (GWS = 3) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Vinyl chloride PARM Code 39175 P Add. Desc: (GWS = 1) Mon. Site: RWS-A	Sample Measurement						<0.39		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Xylene PARM Code 81551 P Add. Desc: (GWS = 10,000) Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) PARM Code 34675 P Add. Desc: (GWS = 3x10 ⁻⁵) Mon. Site: RWS-A	Sample Measurement						<1.3		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
2,4-dichlorophenoxyacetic acid PARM Code 39730 P Add. Desc: (GWS = 70) Mon. Site: RWS-A	Sample Measurement						<0.096		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Silvex PARM Code 39760 P Add. Desc: (GWS = 50) Mon. Site: RWS-A	Sample Measurement						<0.16		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Alachlor PARM Code 39161 P Add. Desc: (GWS = 2) Mon. Site: RWS-A	Sample Measurement						<0.2		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Atrazine PARM Code 39033 P Add. Desc: (GWS = 3) Mon. Site: RWS-A	Sample Measurement						<0.1		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Benzo(a)pyrene PARM Code 34247 P Add. Desc: (GWS = 0.2) Mon. Site: RWS-A	Sample Measurement						<0.02		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Carbofuran PARM Code 81405 P Add. Desc: (GWS = 40) Mon. Site: RWS-A	Sample Measurement						<0.67		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Chlordane (tech mix. and metabolites) PARM Code 39350 P Add. Desc: (GWS = 2) Mon. Site: RWS-A	Sample Measurement						<0.2		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Dalapon PARM Code 38432 P Add. Desc: (GWS = 200) Mon. Site: RWS-A	Sample Measurement						4.4		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Bis(2-ethylhexyl)adipate PARM Code 77903 P Add. Desc: (GWS = 400) Mon. Site: RWS-A	Sample Measurement						<0.6		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Bis (2-ethylhexyl) phthalate PARM Code 39100 P Add. Desc: (GWS = 6) Mon. Site: RWS-A	Sample Measurement						<0.6		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dibromochloropropane (DBCP) PARM Code 82625 P Add. Desc: (GWS = 0.2) Mon. Site: RWS-A	Sample Measurement						<0.0064		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Dinoseb, Whole Water, Recoverable PARM Code 30191 P Add. Desc: (GWS = 7) Mon. Site: RWS-A	Sample Measurement						<0.16		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Diquat PARM Code 04443 P Add. Desc: (GWS = 20) Mon. Site: RWS-A	Sample Measurement						<0.16		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Endothall PARM Code 38926 P Add. Desc: (GWS = 100) Mon. Site: RWS-A	Sample Measurement						<3.3		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Endrin PARM Code 39390 P Add. Desc: (GWS = 2) Mon. Site: RWS-A	Sample Measurement						<0.01		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Ethylene dibromide (1,2-dibromoethane)	Sample Measurement						<0.0075		0	1 Annually	Grab
PARM Code 77651 P Add. Desc: (GWS = 0.02) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Glyphosate	Sample Measurement						<0.0042		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 79743 P Add. Desc: (GWS = 0.7) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Heptachlor	Sample Measurement						<0.04		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39410 P Add. Desc: (GWS = 0.4) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Heptachlor epoxide	Sample Measurement						<0.02		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39420 P Add. Desc: (GWS = 0.2) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Hexachlorobenzene	Sample Measurement						<0.1		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39700 P Add. Desc: (GWS = 1) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Hexachlorocyclopentadiene PARM Code 34386 P Add. Desc: (GWS = 50) Mon. Site: RWS-A	Sample Measurement						<0.1		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Gamma BHC (Lindane) PARM Code 39782 P Add. Desc: (GWS = 0.2) Mon. Site: RWS-A	Sample Measurement						<0.02		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Methoxychlor PARM Code 39480 P Add. Desc: (GWS = 40) Mon. Site: RWS-A	Sample Measurement						<0.1		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Oxamyl (vydate) PARM Code 38865 P Add. Desc: (GWS = 200) Mon. Site: RWS-A	Sample Measurement						<0.44		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Pentachlorophenol PARM Code 39032 P Add. Desc: (GWS = 1) Mon. Site: RWS-A	Sample Measurement						<0.030		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Picloram in Whole Water Sample	Sample Measurement						<0.094		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39720 P Add. Desc: (GWS = 500) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Polychlorinated Biphenyls (PCBs)	Sample Measurement						<0.26		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39516 P Add. Desc: (GWS = 0.5) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Simazine in Whole Water	Sample Measurement						<0.07		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39055 P Add. Desc: (GWS = 4) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Toxaphene	Sample Measurement						<1.0		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39400 P Add. Desc: (GWS = 3) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Trihalomethane, Total by summation	Sample Measurement						0.0877		0	1 Annually	Grab
PARM Code 82080 P Add. Desc: (GWS = 0.080) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Radium 226 + Radium 228, Total PARM Code 11503 P Add. Desc: (GWS = 5) Mon. Site: RWS-A	Sample Measurement						<1.557		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	pCi/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Alpha, Gross Particle Activity PARM Code 80045 P Add. Desc: (GWS = 15) Mon. Site: RWS-A	Sample Measurement						<2.97		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	pCi/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Aluminum, Total Recoverable PARM Code 01104 P Add. Desc: (GWS = 0.2) Mon. Site: RWS-A	Sample Measurement						32.5		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Chloride (as Cl) PARM Code 00940 P Add. Desc: (GWS = 250) Mon. Site: RWS-A	Sample Measurement						133		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Iron, Total Recoverable PARM Code 00980 P Add. Desc: (GWS = 0.3) Mon. Site: RWS-A	Sample Measurement						0.144		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Copper, Total Recoverable	Sample Measurement						1.2		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 01119 P Add. Desc: (GWS = 1,000) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Manganese, Total Recoverable	Sample Measurement						28.8		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 11123 P Add. Desc: (GWS = 50) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Silver, Total Recoverable	Sample Measurement						<1.0		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 01079 P Add. Desc: (GWS = 100) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Sulfate, Total	Sample Measurement						51.9		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00945 P Add. Desc: (GWS = 250) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Zinc, Total Recoverable	Sample Measurement						61.2		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 01094 P Add. Desc: (GWS = 5,000) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
pH	Sample Measurement						7.3		0	1 Annually	Grab
PARM Code 00400 P Add. Desc: (GWS = 6.5-8.5) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	s.u.		(1 Annually)	(Grab)
Solids, Total Dissolved (TDS)	Sample Measurement						465		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 70295 P Add. Desc: (GWS = 500) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Foaming Agents	Sample Measurement						0.1		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 01288 P Add. Desc: (GWS = 0.5) Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Christopher Wall	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Electronically Signed		TELEPHONE (386) 561-8863	SUBMITTED ON 01/21/2021	
☐ NO NEW NON-DOMESTIC WASTEWATER DISCHARGERS HAVE BEEN ADDED TO THE COLLECTION SYSTEM SINCE THE LAST RECLAIMED WATER OR EFFLUENT ANALYSIS WAS CONDUCTED.											

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

PERMITTEE NAME: PORT ORANGE, CITY OF	PERMIT NUMBER: FL0020559
ADDRESS: 1000 City Center Circle Port Orange, FL 32129	LIMIT: FINAL REPORT: Annually
	FACILITY TYPE: DW GROUP: Domestic
FACILITY: Port Orange WWTF	MONITORING GROUP: RWS-A
LOCATION: 817 Oak St Port Orange, FL 32127	DESCRIPTION: Annual Reclaimed Water or Effluent Analysis
COUNTY: VOLUSIA	MONITORING PERIOD: From: 01/01/2019 To: 12/31/2019

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Antimony, Total Recoverable	Sample Measurement						<0.5		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 01268 P Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Arsenic, Total Recoverable	Sample Measurement						0.51		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00978 P Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Barium, Total Recoverable	Sample Measurement						1.8		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 01009 P Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Beryllium, Total Recoverable	Sample Measurement						<1.6		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00998 P Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Cadmium, Total Recoverable PARM Code 01113 P Mon. Site: RWS-A	Sample Measurement						<0.33		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Chromium, Total Recoverable PARM Code 01118 P Mon. Site: RWS-A	Sample Measurement						<1.7		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Cyanide, Free (amen. to chlorination) PARM Code 00722 P Mon. Site: RWS-A	Sample Measurement						7.7		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Fluoride, Total (as F) PARM Code 00951 P Mon. Site: RWS-A	Sample Measurement						0.46		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Lead, Total Recoverable PARM Code 01114 P Mon. Site: RWS-A	Sample Measurement						<0.5		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Mercury, Total Recoverable	Sample Measurement						<0.1		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 71901 P Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Nickel, Total Recoverable	Sample Measurement						<2.1		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 01074 P Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Nitrogen, Nitrate, Total (as N)	Sample Measurement						3.6		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00620 P Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Nitrogen, Nitrite, Total (as N)	Sample Measurement						<0.025		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00615 P Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Nitrite plus Nitrate, Total 1 det. (as N)	Sample Measurement						3.6		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 00630 P Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Selenium, Total Recoverable PARM Code 00981 P Mon. Site: RWS-A	Sample Measurement						<0.5		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Sodium, Total Recoverable PARM Code 00923 P Mon. Site: RWS-A	Sample Measurement						98		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Thallium, Total Recoverable PARM Code 00982 P Mon. Site: RWS-A	Sample Measurement						<0.11		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
1,1-dichloroethylene PARM Code 34501 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
1,1,1-trichloroethane PARM Code 34506 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
1,1,2-trichloroethane PARM Code 34511 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
1,2-dichloroethane PARM Code 32103 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
1,2-dichloropropane PARM Code 34541 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
1,2,4-trichlorobenzene PARM Code 34551 P Mon. Site: RWS-A	Sample Measurement						<0.41		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Benzene PARM Code 34030 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Carbon tetrachloride PARM Code 32102 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Cis-1,2-dichloroethene, Whole Water PARM Code 81686 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Dichloromethane (methylene chloride) PARM Code 03821 P Mon. Site: RWS-A	Sample Measurement						<0.44		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Ethylbenzene PARM Code 34371 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Monochlorobenzenes PARM Code 34031 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
1,2-dichlorobenzene PARM Code 34536 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
1,4-dichlorobenzene PARM Code 34571 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Styrene, Total PARM Code 77128 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Tetrachloroethylene PARM Code 34475 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Toluene PARM Code 34010 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
1,2-trans-dichloroethylene PARM Code 34546 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Trichloroethylene PARM Code 39180 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Vinyl chloride PARM Code 39175 P Mon. Site: RWS-A	Sample Measurement						<0.39		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Xylene PARM Code 81551 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) PARM Code 34675 P Mon. Site: RWS-A	Sample Measurement						<1.2		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
2,4-dichlorophenoxyacetic acid PARM Code 39730 P Mon. Site: RWS-A	Sample Measurement						<0.081		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Silvex PARM Code 39760 P Mon. Site: RWS-A	Sample Measurement						<0.16		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Alachlor PARM Code 39161 P Mon. Site: RWS-A	Sample Measurement						<0.06		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Atrazine PARM Code 39033 P Mon. Site: RWS-A	Sample Measurement						<0.075		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Benzo(a)pyrene PARM Code 34247 P Mon. Site: RWS-A	Sample Measurement						<0.012		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Carbofuran PARM Code 81405 P Mon. Site: RWS-A	Sample Measurement						<0.25		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Chlordane (tech mix. and metabolites) PARM Code 39350 P Mon. Site: RWS-A	Sample Measurement						<0.045		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Dalapon PARM Code 38432 P Mon. Site: RWS-A	Sample Measurement						11.7		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Bis(2-ethylhexyl)adipate PARM Code 77903 P Mon. Site: RWS-A	Sample Measurement						<0.37		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Bis (2-ethylhexyl) phthalate PARM Code 39100 P Mon. Site: RWS-A	Sample Measurement						<0.48		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dibromochloropropane (DBCP) PARM Code 82625 P Mon. Site: RWS-A	Sample Measurement						<0.0064		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Dinoseb, Whole Water, Recoverable PARM Code 30191 P Mon. Site: RWS-A	Sample Measurement						<0.16		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Diquat PARM Code 04443 P Mon. Site: RWS-A	Sample Measurement						<0.3		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Endothall PARM Code 38926 P Mon. Site: RWS-A	Sample Measurement						<9.0		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Endrin PARM Code 39390 P Mon. Site: RWS-A	Sample Measurement						<0.0038		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Ethylene dibromide (1,2-dibromoethane) PARM Code 77651 P Mon. Site: RWS-A	Sample Measurement						<0.0075		0	1 Annually	Grab
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(Grab)
Glyphosate PARM Code 79743 P Mon. Site: RWS-A	Sample Measurement						<0.042		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Heptachlor PARM Code 39410 P Mon. Site: RWS-A	Sample Measurement						<0.0093		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Heptachlor epoxide PARM Code 39420 P Mon. Site: RWS-A	Sample Measurement						<0.0067		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Hexachlorobenzene PARM Code 39700 P Mon. Site: RWS-A	Sample Measurement						<0.024		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Hexachlorocyclopentadiene PARM Code 34386 P Mon. Site: RWS-A	Sample Measurement						0.016		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Gamma BHC (Lindane) PARM Code 39782 P Mon. Site: RWS-A	Sample Measurement						<0.0034		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Methoxychlor PARM Code 39480 P Mon. Site: RWS-A	Sample Measurement						<0.056		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Oxamyl (vydate) PARM Code 38865 P Mon. Site: RWS-A	Sample Measurement						<0.37		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Pentachlorophenol PARM Code 39032 P Mon. Site: RWS-A	Sample Measurement						<0.03		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Picloram in Whole Water Sample	Sample Measurement						<0.094		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39720 P Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Polychlorinated Biphenyls (PCBs)	Sample Measurement						<0.076		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39516 P Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Simazine in Whole Water	Sample Measurement						<0.045		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39055 P Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Toxaphene	Sample Measurement						<0.58		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 39400 P Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Trihalomethane, Total by summation	Sample Measurement						107		0	1 Annually	Grab
PARM Code 82080 P Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Radium 226 + Radium 228, Total PARM Code 11503 P Mon. Site: RWS-A	Sample Measurement						<1.57		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	pCi/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Alpha, Gross Particle Activity PARM Code 80045 P Mon. Site: RWS-A	Sample Measurement						<2.35		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	pCi/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Aluminum, Total Recoverable PARM Code 01104 P Mon. Site: RWS-A	Sample Measurement						22.4		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Chloride (as Cl) PARM Code 00940 P Mon. Site: RWS-A	Sample Measurement						117		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Iron, Total Recoverable PARM Code 00980 P Mon. Site: RWS-A	Sample Measurement						0.0615		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Copper, Total Recoverable PARM Code 01119 P Mon. Site: RWS-A	Sample Measurement						1.4		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Manganese, Total Recoverable PARM Code 11123 P Mon. Site: RWS-A	Sample Measurement						10.9		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Silver, Total Recoverable PARM Code 01079 P Mon. Site: RWS-A	Sample Measurement						<1.0		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Sulfate, Total PARM Code 00945 P Mon. Site: RWS-A	Sample Measurement						46.4		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Zinc, Total Recoverable PARM Code 01094 P Mon. Site: RWS-A	Sample Measurement						55.9		0	1 Annually	24-hr Flow Proportioned Composite
	Permit Requirement						Report (Maximum)	ug/L		(1 Annually)	(24-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
pH	Sample Measurement						7.5		0	1 Annually	Grab
PARM Code 00400 P Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	s.u.		(1 Annually)	(Grab)
Solids, Total Dissolved (TDS)	Sample Measurement						463		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 70295 P Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
Foaming Agents	Sample Measurement						<0.099		0	1 Annually	24-hr Flow Proportioned Composite
PARM Code 01288 P Mon. Site: RWS-A	Permit Requirement						Report (Maximum)	mg/L		(1 Annually)	(24-hr Flow Proportioned Composite)
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Christopher John Wall	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Electronically Signed		TELEPHONE (386) 561-8863	SUBMITTED ON 01/13/2020	
☐ NO NEW NON-DOMESTIC WASTEWATER DISCHARGERS HAVE BEEN ADDED TO THE COLLECTION SYSTEM SINCE THE LAST RECLAIMED WATER OR EFFLUENT ANALYSIS WAS CONDUCTED.											

ATTACHMENT C.

Drilling and Testing Plan

Class I Proposed Drilling and Testing Program

1 General (By Consultant)

- 1.1 Locate Class I Injection well (IW-1) and monitoring well at Florida Department of Environmental Protection (FDEP)-approved location at the City of Port Orange site in Volusia County, Florida. The proposed location is shown on Exhibit 2.
- 1.2 Obtain FDEP Class Recharge Well construction permit prior to initiation of drilling activities.
- 1.3 Drill the injection well first to confirm the presence of a suitable injection zone at the site. The injection zone will target permeable zones within the Avon Park Formation and Oldsmar Formation. The injection zone is expected to be a G-IV aquifer, a non-USDW. The goal of the project will be to complete the injection well into a receiving zone containing natural background water quality of containing Total Dissolved Solids (TDS) concentration with 10,000 mg/L or greater. Once an aquifer injection zone is identified that meets this criterion, as agreed to by FDEP, complete the well as a Class I municipal injection well and construct a shallow monitoring well to monitor the Class I system.

2 Injection Well (IW-1) Construction Sequence (By Contractor)

- 2.1 Construct a lined temporary drilling pad to contain all fluids during drilling operations. Install pad monitoring wells at each of the four corners of the temporary pad and monitor throughout the drilling and testing period in accordance with the FDEP permit requirements.
- 2.2 Install a 36-inch diameter pit casing through unconsolidated surficial deposits. **Exhibit C-1** provides a summary of the casing specifications for the well. **Exhibit C-2** shows the completion details for the exploratory well. The estimated depth of the pit casing is 40 feet below land surface (bls). The casing installation method shall be at the Contractor's discretion.
- 2.3 Drill nominal 8-inch to 12-inch diameter pilot hole to a depth of approximately 125 feet bls using standard mud rotary drilling techniques. The goal of this pilot hole will be to penetrate the fresh water aquifer units to the Ocala Limestone. Collect drill cuttings/samples every 10 feet to the total depth of the well and describe visually in a lithologic log. Include hydrogeologic-related information as applicable.
- 2.4 Record drilling information during all pilot-hole drilling, including penetration rate, voids, water producing zones, etc., in daily reports prepared during all drilling activities. Engineer's resident inspector and Contractor

shall prepare independent daily reports, which will be submitted weekly throughout the drilling period to the FDEP along with a brief summary of the week's activities.

- 2.5 Ream pilot hole to nominal 35-inch borehole to approximately 125 feet bls. Perform logging in accordance with **Exhibit C-3**.
- 2.6 Set and cement nominal 30-inch diameter surface casing to approximately 125 feet bls. **Exhibit C-1** provides a summary of the casing specifications for the well.
- 2.7 A mechanical drift indicator shall be run in pilot holes and reamed holes at intervals not greater than 90 feet. Tool scale shall clearly delineate 10 minutes or less. Any deviation in plumbness greater than 1 degree shall be corrected by the drilling Contractor at its own expense.
- 2.8 Drill a nominal 8-inch to 12-inch diameter pilot hole to approximately 700 feet bls using standard reverse-air drilling techniques. The goal of the pilot hole will be to penetrate the middle semi-confining unit of Avon Park Formation.
- 2.9 Conduct geophysical logging on pilot hole as per **Exhibit C-3**.
- 2.10 Conduct two (2) straddle packer or off-bottom tests within this interval. Collect hydraulic data and water quality data during the packer testing. The goal of these packer tests will be to define the base of the USDW and determine the intermediate casing setting depth.
- 2.11 During pilot-hole advancement, collect up to four (4) 4-inch diameter, 10-foot length core sections. Cores will target potential confining intervals above the proposed recharge zone from approximately 440 feet to 680 feet bls. Cores will be shipped to a core laboratory or the Florida Geological Survey (FGS) for hydraulic testing of the core confining properties.
- 2.12 Submit hydrogeologic data to FDEP with a proposed intermediate casing setting depth. Upon approval from FDEP, ream pilot hole to a nominal 29-inch borehole to approximately 700 feet bls.
- 2.13 Conduct geophysical logging of the reamed hole as per **Exhibit C-3**.
- 2.14 Set and cement nominal 24-inch diameter intermediate casing to approximately 700 feet bls.
- 2.15 Drill a nominal 8-inch to 12-inch diameter pilot hole to approximately 1,500 feet bls using standard reverse-air drilling techniques. The goal of the pilot hole will be to fully penetrate the middle LFA permeable zone in the Oldsmar Formation and into less permeable zones below it.
- 2.16 During reverse-air drilling activities, collect water samples (**Exhibit C-4**, List A) at every other drill rod connection (approximately every 90 feet) during pilot-hole drilling (approximately 700 to 1,500 feet). Collect drill cuttings/samples every 10 feet to the total depth of the well and describe

visually in a lithologic log. Include hydrogeologic-related information as applicable. Perform short-term (approximately 15-minute duration) drill stem specific capacity tests at every other drilling rod connection that includes a water sampling event (approximately every 90 feet).

- 2.17 Complete up to six (4) straddle packer or off-bottom packer tests within this interval. Collect hydraulic data and water quality data during the packer testing. The goal of these packer tests will be to evaluate hydraulic characteristics of the proposed injection interval, define ambient groundwater quality, and to confirm confining properties across lower permeability intervals. Both straddle and off bottom packer tests will include an annular packer test.
- 2.18 Upon reaching the total depth of the well, perform geophysical logging under static and dynamic conditions in the open borehole in accordance with **Exhibit C-3** to the total depth of the pilot hole. Select depth for final casing using drilling, lithologic, and geophysical logs.
- 2.19 If data confirms the presence of an adequate injection zone, propose a final casing setting depth to the FDEP. Receive concurrence from FDEP and complete well as described in Section 3, and as shown on **Exhibit C-2**.
- 2.20 Plug back the bottom of the pilot hole with cement to the bottom of the injection zone.
- 2.21 Set drillable bridge plug in pilot hole near top of selected injection zone.
- 2.22 Plug back pilot hole with cement through confining interval above the recharge zone.
- 2.23 Ream pilot hole to nominal 23 inches in diameter using mud rotary or reverse-air closed circulation drilling techniques, as appropriate. Run caliper geophysical log on the reamed hole in accordance with **Exhibit C-3**.
- 2.24 Set and cement nominal 14-inch diameter carbon steel casing to approximately 800 feet bls. **Exhibit C-1** provides a summary of the casing specifications for the well. Run temperature survey following each cementing stage to confirm cement fill in the annulus. The top 200 feet of annulus shall remain uncemented until performance of the cement bond log (CBL) to assist with tool calibration during logging. Cement the top 200 feet after performing the CBL.
- 2.25 Perform geophysical logging in accordance with **Exhibit C-3**.
- 2.26 Complete pressure test on 14-inch diameter final casing following final cement stage on well. The pressure test will utilize the cement plug at the base of the injection casing. Pressurize casing to 1.5 times the anticipated maximum necessary injection pressure in the well. The pressure test is estimated to be run at between 150 and 300 psi. The pressure test will be deemed successful if the pressure change is within plus or minus 5 percent

after one hour of testing. Repeat pressure test, as necessary, until pressure test is deemed successful.

- 2.27 Drill out the cement plug and ream the open hole from base of 14-inch diameter casing to total depth of the well using reverse-air drilling, closed circulation techniques. The total depth of the well is anticipated to extend to as deep as 1,500 feet bls.
- 2.28 Develop open-hole interval of injection well using air-lift and pumping and surging well development practices. Develop until clear water is produced from the well and until water quality is acceptable to onsite geologist. Collect one water sample in accordance with **Exhibit C-4** (List C) at the end of the development period to establish background water quality of the injection zone.
- 2.29 Following well development, perform geophysical logging in accordance with **Exhibit D-3**. Run video log to total depth of well.
- 2.30 Complete temporary wellhead at RW-1 to control fluids in well until final wellhead and appurtenances are constructed.
- 2.31 Demobilize all equipment from site and restore site to original condition. Remove drilling pad and complete permanent recharge well pad with dimensions of approximately 10 feet by 10 feet.

3 Construct Shallow Monitor Well SMW-1

- 3.1 Locate shallow monitoring well (SMW-1). The location of SMW-1 is shown on **Exhibit A-2**. The goal for this well will be to monitor compliance with groundwater discharge standards as the injected fluids migrate vertically.
- 3.2 Construct a lined temporary drilling pad to contain all fluids during drilling operations. Construct four pad monitoring wells and monitor in accordance with the requirements of the FDEP well construction permit.
- 3.3 Install a 20-inch diameter pit casing through unconsolidated surficial deposits. **Exhibit C-1** provides a summary of the casing specifications for the well. **Exhibit C-2** shows the completion details for injection well. The estimated depth of the pit casing is 40 feet below land surface (bls). The casing installation method shall be at the Contractor's discretion.
- 3.4 Drill nominal 8-inch to 12-inch diameter pilot-hole to a depth of approximately 125 feet bls using standard mud rotary drilling techniques. The goal of this pilot hole will be to penetrate the fresh water units to the Ocala Limestone. Collect drill cuttings/samples every 10 feet to the total depth of the well and describe visually in a lithologic log. Include hydrogeologic-related information as applicable.
- 3.5 Record drilling information during all pilot-hole drilling, including penetration rate, voids, water producing zones, etc., in daily reports prepared during all drilling activities. Engineer's resident inspector and Contractor

shall prepare independent daily reports, which will be submitted weekly throughout the drilling period to the FDEP along with a brief summary of the week's activities.

- 3.6 Ream pilot hole to nominal 19-inch borehole to approximately 125 feet bls. Perform logging in accordance with **Exhibit C-3**.
- 3.7 Set and cement nominal 14-inch diameter surface casing to approximately 125 feet bls. **Exhibit D-1** provides a summary of the casing specifications for the well.
- 3.8 A mechanical drift indicator shall be run in pilot holes and reamed holes at intervals not greater than 90 feet. Tool scale shall clearly delineate 10 minutes or less. Any deviation in plumbness greater than 1 degree shall be corrected by the drilling Contractor at its own expense.
- 3.9 Drill nominal 12-inch diameter pilot-hole to a depth of approximately 480 feet bls using standard reverse-air drilling techniques. Conduct geophysical logging as per **Exhibit C-3**.
- 3.10 During reverse-air drilling activities, collect water samples (**Exhibit C-4**, List A) at every other drill rod connection (approximately every 90 feet) during pilot-hole drilling (approximately 125 to 480 feet). Collect drill cuttings/samples every 10 feet to the total depth of the well and describe visually in a lithologic log. Include hydrogeologic-related information as applicable. Perform short-term (approximately 15-minute duration) drill stem specific capacity tests at every other drilling rod connection that includes a water sampling event (approximately every 90 feet).
- 3.11 Complete up to two (2) off-bottom packer tests within this interval. Collect hydraulic data and water quality data during the packer testing. The goal of these packer tests will be to evaluate hydraulic characteristics of the proposed monitoring interval.
- 3.12 Record drilling information during all pilot-hole drilling, including penetration rate, voids, water producing zones, etc., in daily reports prepared during all drilling activities. Engineer's resident inspector and Contractor shall prepare independent daily reports, which will be submitted weekly throughout the drilling period to the FDEP along with a brief summary of the week's activities.
- 3.13 Upon reaching the total depth of the well, perform geophysical logging under static and dynamic conditions in the open borehole in accordance with **Exhibit C-3** to the total depth of the well. Select depth for final casing using drilling, lithologic, and geophysical logs.
- 3.14 Propose a final casing setting depth to the FDEP. Receive concurrence from FDEP and complete well as shown on **Exhibit C-2**.
- 3.15 Ream pilot hole to nominal 13-inch borehole to approximately 430 feet bls. Perform geophysical logging in accordance with **Exhibit C-3**.

- 3.16 Set and cement nominal 6-inch final casing using cement baskets to 430 feet. **Exhibit C-1** provides a summary of casing specifications for the well.
- 3.17 Develop open-hole interval of storage zone monitoring well using air-lift and pumping and surging well development practices. Develop until clear water is produced from the well and until water quality is acceptable to onsite geologist.
- 3.18 Following well development, perform geophysical logging under static conditions in accordance with **Exhibit C-3**.
- 3.19 Collect a background water sample in accordance with **Exhibit C-4** (List C) following development and geophysical logging of the well.
- 3.20 Complete temporary wellhead at SMW-1 to control fluids in well until final wellhead and appurtenances are constructed.
- 3.21 Demobilize all equipment from site and restore site to original condition. Remove drilling pad and complete permanent monitoring well pad with dimensions of approximately 5 feet by 5 feet.

4 General Activities Following Well Construction

- 4.1 Submit well construction report to the FDEP within 90 days following completion of all well construction activities. The report will include record drawings for the injection well and any new monitoring wells installed.
- 4.2 Submit record drawings to FDEP for the injection system wellheads, piping, pump, and appurtenances. Submit report to the FDEP that documents surface facilities construction activities, provides operating and maintenance guidelines, and other information necessary to assist with start up of long-term operational testing.
- 4.3 Initiate operational testing activities using WRF reclaimed water pending approval by the FDEP.

EXHIBIT C-1**Proposed Casing Selection for the Class I Injection Well System**

Nominal Diameter (in.)	Casing and Interval	Depth Interval (feet bls)	Inside Diameter (in.)	Outside Diameter (in.)	Wall Thickness (in.)	Weight (lb/ft)	Casing Material
Injection Well (IW-1)							
36	Pit Casing to isolate the unconsolidated surficial	0 to 40	35.25	36.00	0.375	142.7	Carbon Steel
30	Surface Casing to Isolate the IAS and upper fresher zones of the UFA	0 to 125	29.25	30.00	0.375	118.6	Carbon Steel
24	Intermediate Casing through the USDW and Upper Permeable Zone of Avon Park	0 to 700	23.25	24.00	0.375	94.62	Carbon Steel
14	Final Casing through Avon Park Confining Unit	0 to 800	13.00	14.00	0.500	72.09	Carbon Steel
Shallow Monitoring Well (SMW-1)							
20	Pit Casing to isolate the unconsolidated surficial	0 to 40	19.25	20.00	0.375	78.60	Carbon Steel
14	Intermediate casing to isolate UFA	0 to 125	13.25	14.00	0.375	54.57	Carbon Steel
6	Final Casing	0 to 430	6.065	6.625	0.280	18.97	Carbon Steel

Abbreviations: Below land surface (bls); Inches (in.); Pounds per foot (lb/ft); Upper Floridan aquifer (UFA).

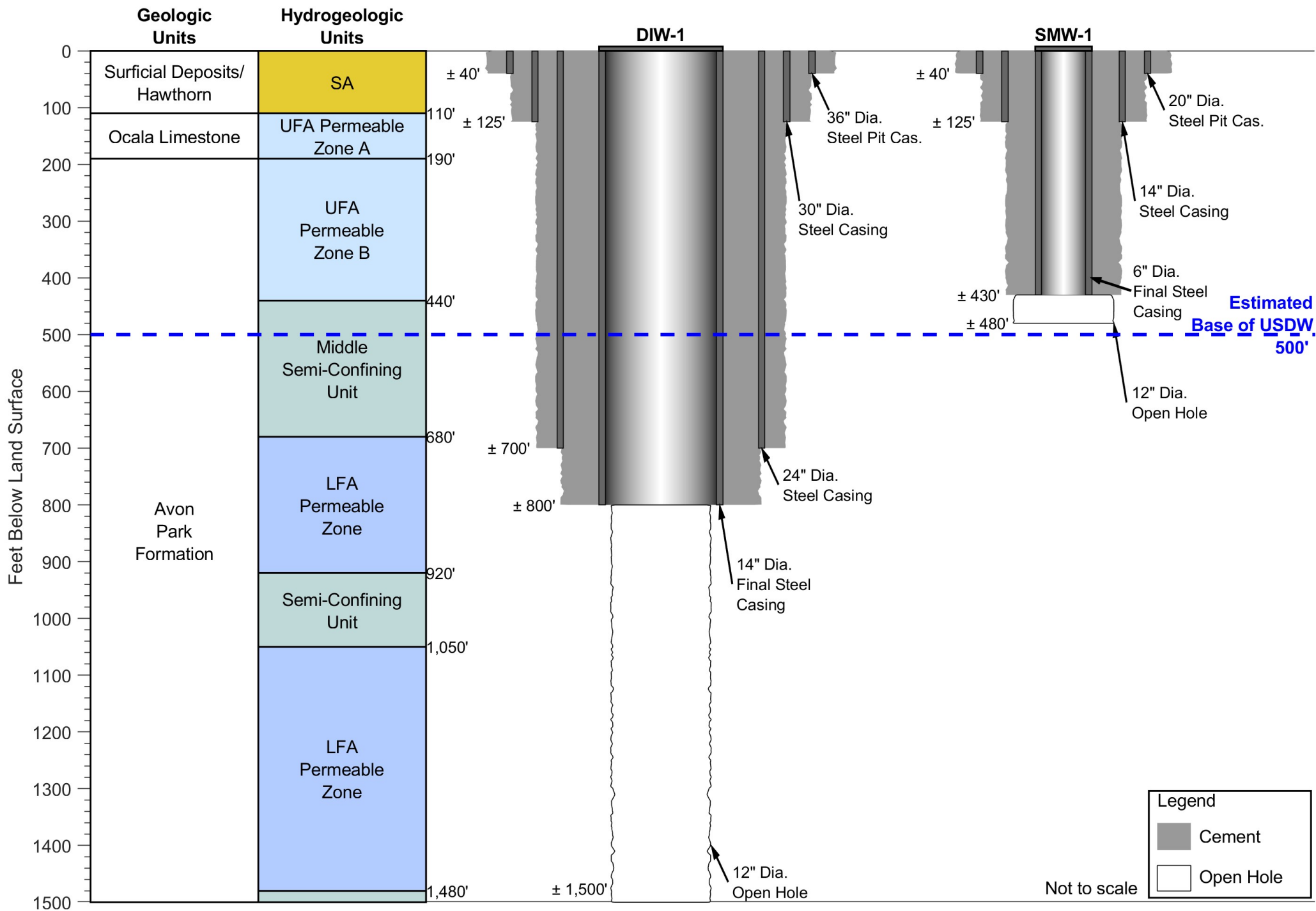


Exhibit C-2
DIW Well Construction Diagram Option 3

EXHIBIT C-3**Proposed Geophysical Logging Program for the Port Orange Class I Injection Well System**

Well Configuration	Interval	Geophysical Logs										SP
		Caliper	Natural Gamma	Dual Induction	Video Survey	BCS	TDS Compilation	Fluid Resistivity	Flow-meter	Temperature		
										Well	Cement Stage	
Injection Well												
IW-1												
Pilot Hole	0 to 125	▲	▲	▲								▲
Reamed Hole	0 to 125	▲	▲									
Pilot Hole	0 to 700	▲	▲	▲		▲	▲	▲ (S/D)	▲ (S/D)	▲ (S/D)		▲
Reamed Hole	0 to 700	▲	▲									
Pilot Hole	0 to 1,500	▲	▲	▲		▲	▲	▲ (S/D)	▲ (S/D)	▲ (S/D)		▲
Reamed Hole	0 to 800	▲	▲									
Completed Well	0 to 1,500	▲	▲	▲	▲			▲ (S/D)	▲ (S/D)	▲(S/D)	▲(FCI)	▲
Shallow Monitoring												
Well SMW-1												
Pilot Hole	0 to 125	▲	▲	▲								▲
Reamed Hole	0 to 125	▲	▲									
Pilot Hole	0 to 480	▲	▲	▲		▲		▲ (S/D)	▲ (S/D)	▲ (S/D)		▲
Reamed Hole	0 to 430	▲	▲									
Completed Well	0 to 480	▲	▲	▲		▲		▲ (S)	▲ (S)	▲(S)		▲

Static (S); Dynamic (D); Following Casing Installation (FCI).

EXHIBIT C-4Standard Water Quality Sampling Parameters at the Port Orange Injection Well System

<u>List A</u>	<u>List B</u>	<u>List C</u>
Chloride	All Parameters in List A	All Parameters in List B
Sulfate	Calcium	State Primary DWSS ²
Total Dissolved Solids (TDS)	Magnesium	State Secondary DWSS ²
Conductivity ¹	Total Alkalinity	Other Parameters ³
Temperature ¹	Total Nitrogen	
pH ¹	Ammonia Nitrogen	
	Total and Noncarbonate Hardness	
	Iron	

¹ Parameters measured in the field during well construction and testing.

² Drinking Water Standards (DWSS).

³ Any additional parameters listed in FDEP Well Construction Permit that will require future monitoring at this location.

Appendix E – Particle Size Distribution Report



Technical Memorandum

To: Steve Parnell, City of Port Orange
Christopher Wall, City of Port Orange

From: M. Lewis Bryant, P.E., Kimley-Horn and Associates, Inc
Cara Keller, E.I., Kimley-Horn and Associates, Inc

Date: June 7, 2019

RE: ***City of Port Orange WRF Reuse Pond TSS Compliance Investigation***
Kimley-Horn Project No: 142173142-174

Summary

The City of Port Orange (City) owns and operates an existing 12.0 million gallon per day (MGD) annual average daily flow (AADF) permitted capacity wastewater treatment facility (WWTF) (FL0020559). The WWTF provides reclaimed water for a 10.5 MGD AADF permitted capacity slow-rate public access system (R-001) and is permitted to discharge reclaimed water to the Halifax River (D-001) and a receiving wetland (D-002). The combined AADF to D-001 and D-002 shall not exceed 0.999 MGD. D-002 includes discharge to a receiving wetland that flows infrequently and intermittently to the Spruce Creek Circle Drainage Ditch and at times has the potential to flow to Sandy Creek (Class III fresh waters). Prior to discharge, reclaimed water is held in two, connected recharge reservoirs (170 acres total). In April 2016, the City constructed an upgraded outfall structure and 10 um Hydrotech disk filter to reduce the pond effluent total suspended solids (TSS) so that the City may augment their reuse flows and improve water quality to the receiving wetlands. In July 2016, the City also installed eleven SolarBee aeration systems to reduce the risk of algae blooms via mixing.

According to operations records, there were not any recorded discharges from D-002 to the receiving wetland, following the outfall and disk filter upgrade implementation, until October 2017. After which, several effluent TSS exceedances have occurred. The Florida Department of Environmental Protection (FDEP) issued a Consent Order (OGC Case #19-0067) dated February 25, 2019 for TSS concentration violations in July, August, and September 2018. This order requires the City to evaluate alternatives and implement a solution to reduce the TSS concentration discharged from the recharge reservoirs to the receiving wetlands. The City suspects that the TSS exceedances are a result of algae growth in the holding ponds. Operational records suggest that the algae has a small particle size that is breaking through the existing disk filter (no removal is observed).

The City has asked Kimley-Horn to assist in characterizing the algae in the pond effluent and consider treatment alternatives to eliminate future violations (reducing TSS to < 5 mg/l).



Data Collection

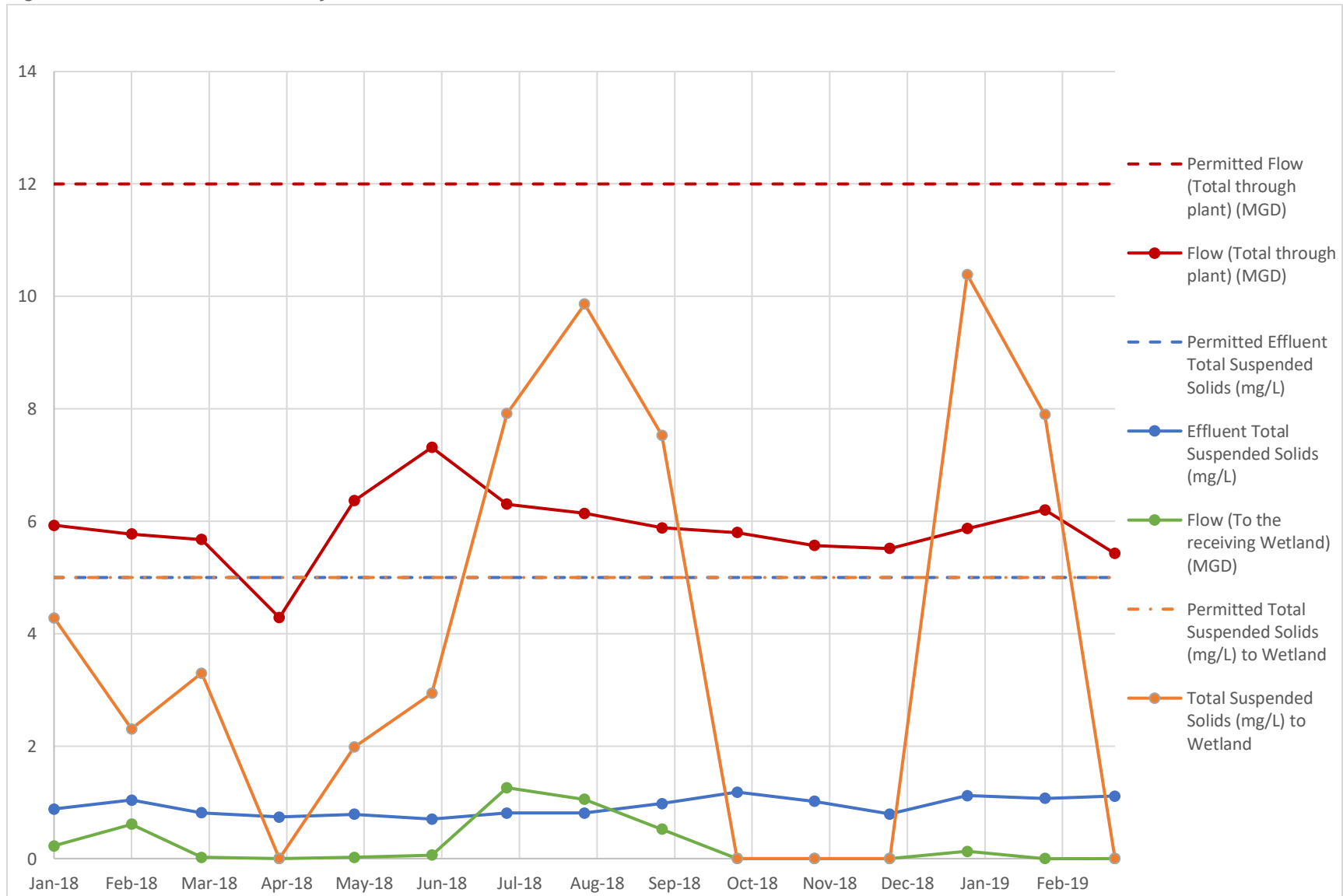
Table 1 summarizes the City's effluent limitations that are pertinent to understanding the TSS exceedances, provided in their current WWTF permit.

Table 1: Pertinent WWTF Permit Effluent Limitations				
Parameter	Monitoring Site	Statistical Basis	Limit	Units
Flow (through plant)	Influent Flow Meter	Annual Average	12.0	MGD
Total Nitrogen	After CCC	Annual Average	10.0	mg/L
Total Phosphorus (as P)	After CCC	Annual Average	3.0	mg/L
Total Suspended Solids	After Filtration, Prior to CCC	Single Sample	5.0	mg/L
Flow (to Receiving Wetlands)	Flow Meter located between Reservoir and Discharge to Wetland	Annual Average	0.999	MGD
Total Suspended Solids	Discharge from Reservoir to Wetland	Monthly Average	5.0	mg/L
Total Nitrogen	Discharge from Reservoir to Wetland	Monthly Average	3.0	mg/L
Total Phosphorus (as P)	Discharge from Reservoir to Wetland	Monthly Average	1.0	mg/L
Total Nitrogen, Ammonia (as N)	Discharge from Reservoir to Wetland	Monthly Average	2.0	mg/L

To better understand the fluctuations in TSS concentration at D-002, discharge monitoring report (DMR) data was compiled to determine if there is a relationship between the WWTF effluent water quality and the TSS concentration observed at D-002. No direct correlation could be made between WWTF effluent water quality (primarily nutrient loading) and reservoir TSS concentrations. It was apparent that the increase in reservoir TSS is independent of WWTF TSS (i.e. the WWTF is not contributing additional TSS to the reservoirs but rather the TSS increase is occurring within the pond). This indicates that algae blooms may be the cause of increased reservoir TSS. **Figure 1** summarizes the monthly average flows from the WWTF and monthly average flows from D-002, with corresponding TSS concentration.



Figure 1 – Flow and TSS Summary





Algae Characterization

To better understand the nature of the TSS in the recharge reservoirs, four water samples (dated 3/13/19) were sent to EMSL Analytical, Inc. for characterization. A sample was collected from the east and west bank of each reservoir. These samples were analyzed using EMSL Method M602, Phytoplankton Identification Using Microscopic Examination. This characterization confirmed the presence of algae with varying algal groups (summarized in **Table 2**). The majority of the algae present in the samples was identified as Blue Green Algae (*Nodularia* and *Aphanothece*). It was also determined that there were approximately ten times more algae cells or colonies present in Lake A, compared to Lake B.

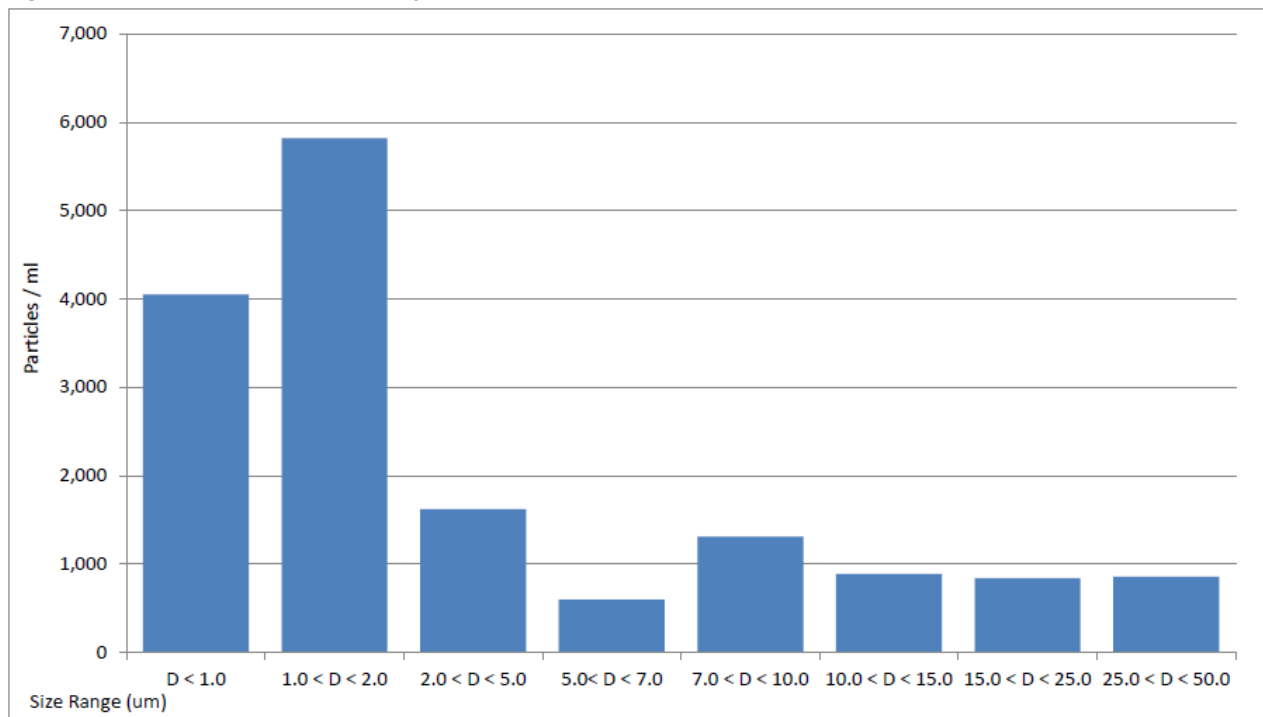
Table 2: Phytoplankton Identification Results			
Sample Location	Algal Group	Genus	Abundance (Cells or Colonies per mL)
Lake A East	Blue Green Algae	<i>Nodularia</i>	12,341
		<i>Aphanothece</i>	14
	Green Algae	<i>Ulothrix</i>	57
	Diatom	<i>Navicula</i>	14
		<i>Nitzchia</i>	14
	Total		12,440
Lake A West	Blue Green Algae	<i>Nodularia</i>	15,838
		<i>Aphanothece</i>	270
	Green Algae	<i>Ulothrix</i>	199
	Diatom	<i>Scenedesmus</i>	28
	Total		16,335
Lake B East	Blue Green Algae	<i>Nodularia</i>	185
		<i>Aphanothece</i>	1,855
	Diatom	<i>Navicula</i>	21
		<i>Ankistrodesmus</i>	71
	Total		2,132
Lake B West	Blue Green Algae	<i>Nodularia</i>	15,838
		<i>Aphanothece</i>	1,066
	Diatom	<i>Navicula</i>	21
		<i>Ankistrodesmus</i>	28
	Total		16,953



The City also submitted a sample from Lake A (dated 3/13/2019) to EMSL Analytical, Inc. for particle size analysis. These results are summarized below in **Table 3** and **Figure 2**.

Table 3: Particle Size Analysis Results				
Particle Size Range (um)	Particle Count (No./ml)	Cumulative Particle Count (No./ml)	Percentage of Total Particle Count	Volumetric Concentration (um ³)
D < 1.0	4,050	4,050	25%	2,120
1.0 < D < 2.0	5,820	9,870	36%	24,400
2.0 < D < 5.0	1,620	11,500	10%	106,000
5.0 < D < 7.0	595	12,100	4%	107,000
7.0 < D < 10.0	1,310	13,400	8%	686,000
10.0 < D < 15.0	887	14,300	6%	1,570,000
15.0 < D < 25.0	838	15,100	5%	6,860,000
25.0 < D < 50.0	859	16,000	5%	56,200,000

Figure 2 – Particle Concentration by Size





Standard Methods (2005), 2540D and EPA (1983) Method 160.2 (Residue, non-filterable) provide the generally accepted guidance for quantifying TSS. These methods call for the use of a 1.5 μm or 2.0 μm glass microfiber filter, respectively. With the understanding that approximately 36% of the solids in solution fall within the 1.0 μm to 2.0 μm range, further consideration should be given to the City's test method and filter selection. Additional analysis may provide insight to whether an adjustment in test method may result in a lower TSS concentration result. A sampling program that includes particle size with corresponding TSS may also help determine if changing the filter size may result in lower reportable TSS.

Treatment Technology Considerations and Recommendations

The City previously identified three treatment options aimed at reducing the concentration of algae in the recharge ponds. Each of these technologies was evaluated for their potential to reliably maintain permitted compliance ($\text{TSS} < 5\text{mg/l}$).

Bio-zyme Bacteria

Bio-zyme, provided by TRM Biologics, Inc., is a product that contains exoenzyme producing bacteria. These nitrifying and denitrifying bacteria assist with the reduction of phosphorous and nitrogen in the pond water and produce enzymes. These enzymes reportedly assist with the breakdown of organic wastes so that they may be more easily consumed by the bacteria.

Bio-zyme can be implemented through two methods. The first method is to add Bio-zyme directly to the body of water where the increased concentration of naturally occurring bacteria more efficiently digests the nutrient in solution. The second method includes the use of a bio-generator (separate tank and equipment) to starve the bacteria and force them into a near-death phase. This causes the bacteria to produce exoenzymes at the maximum possible rate. The majority of these bacteria do not produce exoenzymes when they are in a natural, logarithmic growth environment. This high concentration of exoenzymes is then deposited into the water.

Information provided by the vendor suggests that this technology has been successful at reducing nutrient concentrations which has resulted in reduced algal blooms. These installations typically require the use of diffused air to increase the dissolved oxygen concentration in the water body (similar to an activated sludge process). Bio-zyme appears to be efficient for the removal of organic sediment but fewer successful results are available for the prevention of algae. While some nutrient reduction may be observed, it is unlikely that this reduction would be sufficient to completely prevent an algae bloom. In most recreational applications, the use of copper-sulfide was required to eliminate algae, though it is reported that less copper-sulfide was required.

TRM Biologics, Inc. provided the City with a quote for the purchase of a Bio-Generator (\$3,889.00) and a year's worth of Bio-Zyme products (\$22,952.16) for a total of \$26,841.16. Alternatively, the City has the option to lease a unit, including the cost of Bio-Zyme products, for \$2,392.00 per month for 24 months.

Beemats (Floating Wetland Treatment)

Beemats are floating, active biological treatment systems that utilize aquatic plants to remove nutrients from water. The plant roots and attached biofilm are suspended in the water, below the floating mats, where they accumulate and store soluble nutrients. As these plants mature, they continue to accumulate sequestered nutrients. Once these plants mature, they are removed from the mats and replaced. This removes the nutrients from the system, rather than reintroducing them and the plants die and decay, as is the case in a fixed wetland system.



This reduction in nutrients, as a result of plant uptake, reduces the concentration of bioavailable nutrients for use by algae species. While these nutrients may be reduced, the plants will be working to out compete the algae for nutrient uptake. Algae are simple aquatic organisms with a high efficiency to conduct photosynthesis. Because of this, algae are more likely to pick up trace amounts of nutrients, as compared to larger aquatic plants.

While data provided by Beemats suggests that the floating wetlands are efficient at removing nutrients, when nitrogen and phosphorus are present in high concentrations, more information will need to be gathered to understand the removal efficiency when algae is present and nutrient concentrations are low. In this case, the floating wetlands will be used as a polishing mechanism.

Beemats provided a preliminary proposal to supply and install all required materials and plants. The estimated cost to install a Beemat system in Pond A was \$152,064.00 and Pond B ranged from \$261,250 to \$ 276,250. This results in a total cost of \$413,314 to \$428,314. Annual maintenance costs are expected to include \$652/ton for weekly or biweekly biomass harvesting and transport to landfill for Pond B as well as \$67,584 annually for harvest and island replanting for Pond A.

LG Sonic Algae Control

The ultrasonic algae control devices from LG Sonic emit specific ultrasonic parameters to control algae in lakes, reservoirs, and industrial applications. Ultrasounds waves create a sound layer in the top portion of the water column, which effects the buoyancy of algae. This will prevent the algae from migrating to the surface of the water to absorb sunlight, preventing photosynthesis, and eventually causing them to die.

The ultrasound waves are emitted by floating, solar powered MPC-Buoys. These buoys are capable of measuring pH, turbidity, dissolved oxygen, temperature, and concentration of green and blue-green algae. This data is delivered in real time to a web-based software that can predict algal blooms. With this information, the ultrasonic program is activated (to emit specific ultrasonic waves) according to the water conditions and type of algae present. This process both treats and prevents algae blooms.

This technology treats algae directly, as opposed to the other two alternatives which have an indirect effect on algae growth as a result of nutrient reduction. LG Sonic reports that their buoys are capable of eliminating up to 90% of the existing pond algae and prevent the growth of new algae.

Gerber Pumps International, Inc., a representative of LG Sonic, provided a quote for 4 MPC-Buoys, 3 MPC-Buoy Lites, related accessories, and supervision of installation for \$330,370.

Potential Next Steps

As a first step, it may be worthwhile to proceed with a sampling program and additional lab testing to determine the potential to reduce reportable TSS by changing the filter pore size used in the TSS testing procedure. Should this demonstrate that the reportable TSS is still greater than the allowable limit, the City should proceed with the selection of a technology to treat algae. At this time, the LG Sonic appears to be the only technology being considered that is directly treating algae. Other technologies may have an indirect impact on algae through the reduction of nutrients, though at this time, little data is available to demonstrate the effectiveness of these applications.



FLORIDA DEPARTMENT OF Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

September 29, 2021

Wayne Clark, City Manager
City of Port Orange
1000 City Center Circle
Port Orange, FL 32129
WClark@port-orange.org

Re: Port Orange WRF
DW Facility ID # FL0020559
OGC Case #21-0734

Dear Mr. Clark:

Enclosed is the executed Consent Order to resolve the above referenced case. This copy is for your records.

Should you have any questions or comments, please contact Helena Dacenay at 407-897-4342 or via e-mail at Helena.Dacenay@FloridaDEP.gov.

Your cooperation in this matter will be appreciated.

Sincerely,

A handwritten signature in dark ink, appearing to read "AW", is written over a light blue horizontal line.

On behalf of:

Aaron Watkins
Director, Central District

Enclosure: Consent Order OGC#21-0734

cc: Lea Crandall, OGC
Zoey Carr, Central District
Daun Festa, Central District
Lynn Stevens, lstevens@port-orange.org
Steve Parnell, sparnell@port-orange.org
Christopher Wall, cwall@port-orange.org

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE OF FLORIDA DEPARTMENT)
OF ENVIRONMENTAL PROTECTION)
)
v.)
)
CITY OF PORT ORANGE)
_____)

IN THE OFFICE OF THE
CENTRAL DISTRICT

OGC FILE NO. 21-0734

CONSENT ORDER

This Consent Order (Order) is entered into between the State of Florida Department of Environmental Protection (Department) and City of Port Orange (Respondent) to reach settlement of certain matters at issue between the Department and Respondent.

The Department finds and Respondent admits the following:

1. The Department is the administrative agency of the State of Florida having the power and duty to protect Florida's air and water resources and to administer and enforce the provisions of Chapter 403, Florida Statutes (F.S.), and the rules promulgated and authorized in Title 62, Florida Administrative Code (F.A.C.). The Department has jurisdiction over the matters addressed in this Order.

2. Respondent is a person within the meaning of Section 403.031(5), F.S.

3. Respondent is the owner and is responsible for the operation of the Port Orange Water Reclamation Facility and its associated collection/transmission systems, a 12 million gallon per day (MGD) annual average daily flow (AADF) permitted capacity anoxic/oxic activated sludge advanced domestic wastewater plant that is authorized to discharge effluent to the Halifax River, a Class III Marine water, Spruce Creek Circle Drainage Ditch and Sandy Creek, Class III fresh waters, and a slow-rate public access reuse system (Facility). The Facility is operated under Wastewater Permit No. FL0020559 (Permit), which was issued on November 21, 2019 and will expire on November 20, 2024. The Facility is located at 817 Oak Street, Port Orange, in Volusia County, Florida (Property). Respondent owns the Property on which the Facility is located.

4. The Department finds that the following violations occurred:

a) TSS monthly averages reported at EFD-2 on the D-002 DMR for November 2020, January 2021, February 2021, March 2021, and April 2021 exceeded the permit limit of 5.0 mg/L.

b) TSS weekly averages reported at EFD-2 on the D-002 DMR for December 2020, January 2021, March 2021, April 2021, and May 2021 exceeded the permit limit of 7.5 mg/L.

c) TSS daily maximums reported at EFD-2 on the D-002 DMR for December 2020, January 2021, February 2021, March 2021, and April 2021 exceeded the permit limit of 10.0 mg/L, for any one sample.

d) The annual average flow reported for D-001 on DMRs for October 2020 through June 2021 exceeded the permitted flow annual average of 0.999 MGD.

Having reached a resolution of the matter Respondent and the Department mutually agree and it is

ORDERED:

5. Respondent shall comply with the following corrective actions within the stated time periods:

6. Within 120 days of the effective date of this Order, Respondent shall submit to the Department an updated evaluation conducted by a professional engineer registered in the state of Florida, of the Facility, including the effluent disposal system and associated collection system, to discover the cause or causes of the violations identified in paragraph 4 above.

7. Within 120 days of the effective date of this Order, Respondent shall submit to the Department a report including scope of work and schedule for corrective actions that will be completed per recommendations in the evaluation described in paragraph 6 above.

8. Within 30 days of the due date for submission of the design modification(s) in paragraph 7, Respondent shall submit a complete application for a Department wastewater permit to construct the modifications submitted pursuant to paragraph 7, if such a permit is required. In the event the Department requires additional information to process the permit

application Respondent shall provide a written response containing the information requested by the Department within 90 days of the date of the request.

9. Within 180 days after issuance of the wastewater permit referenced in paragraph 8 above, or if no permit is required, within 180 days of the approval of the design modification(s) in paragraph 7, Respondent shall complete construction of the modification(s) submitted pursuant to paragraph 7.

10. Within 30 days after completion of the construction, Respondent shall submit to the Department a Certification of Completion, prepared and sealed by a professional engineer registered in the State of Florida, stating that modifications to the Facility, effluent disposal system, and collection system have been constructed in accordance with the provisions of the Permit or, if no Permit is required the design modification(s) submitted pursuant to paragraph 7.

11. By November 1, 2022, or upon completion of corrective actions as provided per paragraph 7, Respondent shall demonstrate compliance by maintaining effluent discharge concentration at D-002 at or below the final TSS effluent limits for six consecutive calendar months and report results on the required DMRs.

12. Beginning the effective date of this Order and lasting through November 1, 2022, the facility is subject to the following interim limits for TSS and annual average flow at EFD-2 and FLW-2 respectively:

Parameter	Units	Max/Min	Limit	Statistical Basis	Monitoring Site
TSS (D-002 outfall)	mg/L	Max	15.0	Monthly average	EFD-2
TSS (D-002 outfall)	mg/L	Max	22.5	Weekly average	EFD-2
TSS (D-002 outfall)	mg/L	Max	30.0	Single sample	EFD-2
Flow (to river)	MGD	Max	2.0	Annual Average	FLW-2

13. Within 90 days of the effective date of this Order, Respondent shall submit to the Department a 12-month Usage Projection and Facility Plan with compiled flow data and detailed proactive measures that address the flow violations identified in 4(d) above.

14. By November 1, 2022, the sum of the annual average flow at D-001 and D-002 shall not exceed 0.999 MGD.

15. Every calendar quarter after the effective date of this Order and continuing until all corrective actions have been completed, Respondent shall submit to the Department a written report containing information about the status and progress of projects being completed under this Order, information about compliance or noncompliance with the applicable requirements of this Order, including construction requirements and effluent limitations, and any reasons for noncompliance. These reports shall also include a projection of the work Respondent will perform pursuant to this Order during the 12-month period which will follow the report. Respondent shall submit the reports to the Department within 30 days of the end of each quarter.

16. Notwithstanding the time periods described in the paragraphs above, Respondent shall complete all corrective actions required by paragraphs 5-12 within 2 years of the effective date of this Order and be in full compliance with Rule 62-620, F.A.C., regardless of any intervening events or alternative time frames imposed in this Order, other than those excused delays agreed to by the Department, as described in paragraph 23.

17. Within 30 days of the effective date of this Order, Respondent shall pay the Department \$7,750.00 in settlement of the regulatory matters addressed in this Order. This amount includes \$7,500.00 for civil penalties and \$250.00 for costs and expenses incurred by the Department during the investigation of this matter and the preparation and tracking of this Order. The civil penalty in this case includes 2 violations that each warrant a penalty of \$1,000.00 or more.

18. Respondent agrees to pay the Department stipulated penalties in the amount of \$1,000.00 per day for each and every day Respondent fails to timely comply with any of the requirements of paragraph(s) 5-13 of this Order. The Department may demand stipulated

penalties at any time after violations occur. Respondent shall pay stipulated penalties owed within 30 days of the Department's issuance of written demand for payment, and shall do so as further described in paragraph 19, below. Nothing in this paragraph shall prevent the Department from filing suit to specifically enforce any terms of this Order. Any stipulated penalties assessed under this paragraph shall be in addition to the civil penalties agreed to in paragraph 17 of this Order.

19. Respondent shall make all payments required by this Order by cashier's check, money order or on-line payment. Cashier's check or money order shall be made payable to the "Department of Environmental Protection" and shall include both the OGC number assigned to this Order and the notation "Water Quality Assurance Trust Fund." Online payments by e-check can be made by going to the DEP Business Portal at:

<http://www.fldepportal.com/go/pay/>. It will take a number of days after this order is final, effective and filed with the Clerk of the Department before ability to make online payment is available.

20. Except as otherwise provided, all submittals and payments required by this Order shall be sent to DEP_CD@dep.state.fl.us and copied to David Smicherko, Environmental Manager, Department of Environmental Protection, Central District Office, 3319 Maguire Blvd., Suite 232, Orlando, FL 32803.

21. In lieu of making cash payment of \$7,750.00 in civil penalties as set forth in Paragraph #, Respondent may elect to off-set the amount of \$7,500.00 by implementing a Pollution Prevention (P2) Project, which must be approved by the Department. P2 is a process improvement that reduces the amount of pollution that enters the environment; by conserving resource (including water, raw materials, chemicals, and energy) use, or by minimizing waste generation (including domestic and industrial wastewater, solid and hazardous waste, and air emissions). A P2 Project must reduce pollution or waste within the process beyond what is required by federal, state, or local law, in order to be eligible for civil penalty offset under this Order. If Respondent chooses to implement a P2 Project, Respondent shall notify the Department of its election by certified mail within 15 days of the effective date of this Order.

Within 30 days of the effective date of this Order, Respondent must pay a total of \$250.00 for costs and expenses incurred by the Department, during the investigation of this matter, and the preparation and tracking of this Order.

22. If Respondent elects to implement a P2 Project as provided in Paragraph 18, Respondent shall submit a completed P2 Project Plan (Plan) within 30 days of the effective date of this Order. The Plan must be completed using Exhibit A, "P2 Project Plan" template.

23. In the event the Department requires additional information to process the Plan described in Paragraph 19, Respondent shall provide a modified Plan containing the information requested by the Department within 15 days of the date of the request.

24. If any balance remains after the entire P2 credit is applied to the allowable portion of the civil penalty, Respondent shall pay the difference within 30 days of written notification by the Department to Respondent that the balance is due.

25. Respondent shall allow all authorized representatives of the Department access to the Facility and the Property at reasonable times for the purpose of determining compliance with the terms of this Order and the rules and statutes administered by the Department.

26. If any event, including administrative or judicial challenges by third parties unrelated to Respondent, occurs which causes delay or the reasonable likelihood of delay in complying with the requirements of this Order, Respondent shall have the burden of proving the delay was or will be caused by circumstances beyond the reasonable control of Respondent and could not have been or cannot be overcome by Respondent's due diligence. Neither economic circumstances nor the failure of a contractor, subcontractor, materialman, or other agent (collectively referred to as "contractor") to whom responsibility for performance is delegated to meet contractually imposed deadlines shall be considered circumstances beyond the control of Respondent (unless the cause of the contractor's late performance was also beyond the contractor's control). Upon occurrence of an event causing delay, or upon becoming aware of a potential for delay, Respondent shall notify the Department by the next working day and shall, within seven calendar days notify the Department in writing of (a) the anticipated length and cause of the delay, (b) the measures taken or to be taken to prevent or

minimize the delay, and (c) the timetable by which Respondent intends to implement these measures. If the parties can agree that the delay or anticipated delay has been or will be caused by circumstances beyond the reasonable control of Respondent, the time for performance hereunder shall be extended. The agreement to extend compliance must identify the provision or provisions extended, the new compliance date or dates, and the additional measures Respondent must take to avoid or minimize the delay, if any. Failure of Respondent to comply with the notice requirements of this paragraph in a timely manner constitutes a waiver of Respondent's right to request an extension of time for compliance for those circumstances.

27. The Department, for and in consideration of the complete and timely performance by Respondent of all the obligations agreed to in this Order, hereby conditionally waives its right to seek judicial imposition of damages or civil penalties for the violations described above up to the date of the filing of this Order. This waiver is conditioned upon Respondent's complete compliance with all of the terms of this Order.

28. This Order is a settlement of the Department's civil and administrative authority arising under Florida law to resolve the matters addressed herein. This Order is not a settlement of any criminal liabilities which may arise under Florida law, nor is it a settlement of any violation which may be prosecuted criminally or civilly under federal law. Entry of this Order does not relieve Respondent of the need to comply with applicable federal, state, or local laws, rules, or ordinances.

29. The Department hereby expressly reserves the right to initiate appropriate legal action to address any violations of statutes or rules administered by the Department that are not specifically resolved by this Order.

30. Respondent is fully aware that a violation of the terms of this Order may subject Respondent to judicial imposition of damages, civil penalties up to \$15,000.00 per day per violation, and criminal penalties.

31. Respondent acknowledges and waives its right to an administrative hearing pursuant to sections 120.569 and 120.57, F.S., on the terms of this Order. Respondent also

acknowledges and waives its right to appeal the terms of this Order pursuant to section 120.68, F.S.

32. Electronic signatures or other versions of the parties' signatures, such as .pdf or facsimile, shall be valid and have the same force and effect as originals. No modifications of the terms of this Order will be effective until reduced to writing, executed by both Respondent and the Department, and filed with the clerk of the Department.

33. The terms and conditions set forth in this Order may be enforced in a court of competent jurisdiction pursuant to sections 120.69 and 403.121, F.S. Failure to comply with the terms of this Order constitutes a violation of section 403.161(1)(b), F.S.

34. This Consent Order is a final order of the Department pursuant to section 120.52(7), F.S., and it is final and effective on the date filed with the Clerk of the Department unless a Petition for Administrative Hearing is filed in accordance with Chapter 120, F.S. Upon the timely filing of a petition, this Consent Order will not be effective until further order of the Department.

35. Respondent shall publish the following notice in a newspaper of daily circulation in Volusia County, Florida. The notice shall be published one time only within 30 days of the effective date of the Order. Respondent shall provide a certified copy of the published notice to the Department within 10 days of publication.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF CONSENT ORDER

The Department of Environmental Protection ("Department") gives notice of agency action of entering into a Consent Order with CITY OF PORT ORANGE pursuant to section 120.57(4), Florida Statutes. The Consent Order addresses the permit limit exceedances for TSS and flow at 817 Oak St., Port Orange, FL. The Consent Order is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department of Environmental Protection, Central District Office, 3319 Maguire Blvd., Suite 232, Orlando, FL 32803.

Persons who are not parties to this Consent Order, but whose substantial interests are affected by it, have a right to petition for an administrative hearing under sections 120.569 and 120.57, Florida Statutes. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition concerning this Consent Order means that the Department's final action may be different from the position it has taken in the Consent Order.

The petition for administrative hearing must contain all of the following information:

- a) The name and address of each agency affected and each agency's file or identification number, if known;
- b) The name, address, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- c) A statement of when and how the petitioner received notice of the agency decision;
- d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;
- f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received) at the Department's Office of General Counsel, 3900 Commonwealth Boulevard, MS# 35, Tallahassee, Florida 32399-3000 or received via electronic correspondence at Agency_Clerk@floridadep.gov, within 21 days of receipt of this notice. A copy of the petition must also be mailed at the time of filing to the District Office at Central District Office, 3319 Maguire Blvd., Suite 232, Orlando, FL 32803. Failure to file a petition within the 21-day period constitutes a person's waiver of the right to request an administrative hearing and to participate as a party to this proceeding under sections 120.569

and 120.57, Florida Statutes. Before the deadline for filing a petition, a person whose substantial interests are affected by this Consent Order may choose to pursue mediation as an alternative remedy under section 120.573, Florida Statutes. Choosing mediation will not adversely affect such person's right to request an administrative hearing if mediation does not result in a settlement. Additional information about mediation is provided in section 120.573, Florida Statutes and Rule 62-110.106(12), Florida Administrative Code.

36. Rules referenced in this Order are available at
<http://www.dep.state.fl.us/legal/Rules/rulelist.htm>

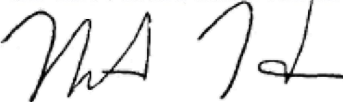
FOR THE RESPONDENT:


Wayne Clark
Port Orange City Manager

9/24/21
Date

DONE AND ORDERED this 29 day of September, 2021, in
Orange County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


on behalf of
Aaron Watkins
District Director
Central District

Filed, on this date, pursuant to section 120.52, F.S., with the designated Department Clerk,
receipt of which is hereby acknowledged.

Barbara Browning

Clerk

September 29, 2021

Date

DW/CO June 16, 2021

Final Clerked Copies furnished to:
Lea Crandall, Agency Clerk
Mail Station 35

[This template is to be used as a Long Form Consent Order Exhibit when regulatory corrective actions, or P2 Projects require time to be resolved or developed. This template must be completed to describe P2 Projects once identified. The document must be approved prior to P2 Project implementation. The Plan must contain the following information.]

Exhibit

P2 Project Plan (Plan)

(Note: Provide the information specified and delete existing text within parentheses)

(Facility Name)

(Address)

(Telephone)

(Preparer Name/Title)

A. **Project Description:** (Summarize P2 Projects selected. Describe the processes or operations to be modified, and the specific changes to be made. Include details such as the specific equipment to be installed, materials to be substituted, and the actual changes to be made to processes or operations. Include manufacturer or vendor information, and specifications.)

B. **Environmental and Economic Benefits:** (Explain why and how each Project proposed constitutes P2.

Specify how each material, chemical, water and energy is saved, and from which processes or operations. Specify how each solid and hazardous waste, industrial wastewater and air emissions are generated, the waste type, and from which processes or operations. **Describe generally in paragraph format.**

Estimate the *annual* savings in *resources* - raw materials, chemicals, water, and energy at the process or operation front end. Estimate the *annual* reductions in *wastes* - solid and hazardous waste, wastewater, and air emission reductions at the process or operation back end.

Figures quoted should represent weights or volumes annually, and should be equalized for production rate changes. Associated cost savings should be included. **Describe specifically using the tables provided.**

Complete the first table for each per Project individually. Add or average corresponding figures from each Project table to complete the Plan table, *for multiple Projects.*)

<i>(Project Name)</i>							
Annual Resource Consumption Comparison							
Item	Quantity Used (gal/lb/kwh-specify)			Purchasing Cost (\$)			Percent (%) Reduction
	Before	After	Reduction	Before	After	Reduction	
Water							
Chemicals							

Materials							
Energy							
Total Annual Cost Savings =							
Annual Waste Generation Comparison							
Item	Quantity Generated (gal/lb/tons-specify)			Disposal Cost (\$)			Percent (%) Reduction
	Before	After	Reduction	Before	After	Reduction	
Hazardous Waste							
Industrial Wastewater							
Solid Waste							
Air Emissions							
Total Annual Cost Savings =							
Total Annual Avoided Cost Savings =							

<i>Summary of All P2 Projects</i>							
Annual Resource Consumption Comparison							
Item	Quantity Used (gal/lb/kwh-specify)			Purchasing Cost (\$)			Percent (%) Reduction
	Before	After	Reduction	Before	After	Reduction	
Water							
Chemicals							
Materials							
Energy							
Total Annual Cost Savings =							
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	Before	After	Reduction	Before	After	Reduction	
Hazardous Waste							
Industrial Wastewater							
Solid Waste							
Air Emissions							
Total Annual Cost Savings =							
Total Annual Avoided Cost Savings =							

C. **Project Cost:** (Include per Project the itemized, subtotal and Project total costs. A projected payback period in months or years needs to be included.

Provide a grand total cost for all Projects and an averaged projected payback period, *for multiple Projects. Use list or table format for all.*)

D. **Implementation Schedule:** (Provide a brief discussion of the steps necessary to implement the Projects and expected time frames for completion. A table or list format is preferred. The schedule shall include a list of milestones with dates, or timeframes based on Plan approval date, including Progress and Final Report submittals. Provide a description of any anticipated problems and options. *The implementation should take no longer than six months to complete.*)

E. **Project Reporting:**

1. Within 90 days of approval of the Project Plan, the Respondent shall submit a P2 Project Progress Report to the Department that describes the Respondent's progress in implementing the P2 Project and meeting the requirements in the Plan, and includes a list of equipment ordered, purchased, and/or installed.

2. Within 180 days of approval of the Plan, the Respondent shall submit to the Department a P2 Project Final Report that includes the following.

a. A confirmation that the information presented in Sections A-C of the Summary is unchanged, or an updated version with the sections changed appropriately. A statement that the Project(s) was/were implemented successfully. An explanation of any problems encountered and corrections applied.

b. Attached expense reports, receipts, purchasing instruments and other documents itemizing costs expended on preparing and implementing the Project.

3. The Department shall review the Final Report and determine:

a. Whether the project was properly implemented; and

b. Which expenses apply toward pollution prevention credits.

4. A \$1.00 pollution prevention credit for each \$1.00 spent on applicable costs will be applied against the portion of the civil penalty that can be offset.

a. The following costs are allowable to offset the allowable amount of the civil penalty:

i. Preparation of the P2 Project;

ii. Design of the P2 Project;

iii. Installation of equipment for the P2 Project;

iv. Construction of the P2 Project;

v. Testing of the P2 Project;

vi. Training of staff concerning the implementation of the P2 Project; and

vii. Capital equipment needed for the P2 Project.

b. The following costs shall not apply toward P2 credit:

i. Costs incurred in conducting a waste audit;

ii. Maintenance and operation costs involved in implementing the P2 Project;

iii. Monitoring and reporting costs;

iv. Salaries of employees who perform their job duties;

v. Costs expended to bring the facility into compliance with current law, rules and regulations;

vi. Costs associated with a P2 Project that is not implemented;

vii. Costs associated with a P2 Project that has not been approved by the Department; and

viii. Legal costs.

c. If any balance remains after the entire P2 credit is applied to the allowable portion of the civil penalty, Respondent shall pay the difference within 30 days of written notification by the Department to the Respondent that the balance is due.

5. The Department may terminate the P2 Project at any time during the development or implementation of it, if the Respondent fails to comply with the requirements in this document, act in good faith in preparing and implementing the project, or develop and implement the P2 Project in a timely manner. The Respondent may terminate the P2 Project at any time during its development or implementation.

[This template is to be used as a Long Form Consent Order Exhibit when regulatory corrective actions, or P2 Projects require time to be resolved or developed. This template must be completed to describe P2 Projects once identified. The document must be approved prior to P2 Project implementation. The Plan must contain the following information.]

Exhibit A

P2 Project Plan (Plan)

(Note: Provide the information specified and delete existing text within parentheses)

(Facility Name)

(Address)

(Telephone)

(Preparer Name/Title)

A. **Project Description:** (Summarize P2 Projects selected. Describe the processes or operations to be modified, and the specific changes to be made. Include details such as the specific equipment to be installed, materials to be substituted, and the actual changes to be made to processes or operations. Include manufacturer or vendor information, and specifications.)

B. **Environmental and Economic Benefits:** (Explain why and how each Project proposed constitutes P2.

Specify how each material, chemical, water and energy is saved, and from which processes or operations. Specify how each solid and hazardous waste, industrial wastewater and air emissions are generated, the waste type, and from which processes or operations. **Describe generally in paragraph format.**

Estimate the *annual* savings in *resources* - raw materials, chemicals, water, and energy at the process or operation front end. Estimate the *annual* reductions in *wastes* - solid and hazardous waste, wastewater, and air emission reductions at the process or operation back end.

Figures quoted should represent weights or volumes annually, and should be equalized for production rate changes. Associated cost savings should be included. **Describe specifically using the tables provided.**

Complete the first table for each per Project individually. Add or average corresponding figures from each Project table to complete the Plan table, *for multiple Projects.*)

<i>(Project Name)</i>							
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	Before	After	Reduction	Before	After	Reduction	
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	Before	After	Reduction	Before	After	Reduction	
Hazardous Waste							
Industrial Wastewater							
Solid Waste							
Air Emissions							
Total Annual Cost Savings =							
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<i>Summary of All P2 Projects</i>							
Annual Resource Consumption Comparison							
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Hazardous Waste							
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Total Annual Cost Savings =							
Total Annual Avoided Cost Savings =							

C. **Project Cost:** (Include per Project the itemized, subtotal and Project total costs. A projected payback period in months or years needs to be included.

Provide a grand total cost for all Projects and an averaged projected payback period, *for multiple Projects. Use list or table format for all.*)

D. **Implementation Schedule:** (Provide a brief discussion of the steps necessary to implement the Projects and expected time frames for completion. A table or list format is preferred. The schedule shall include a list of milestones with dates, or timeframes based on Plan approval date, including Progress and Final Report submittals. Provide a description of any anticipated problems and options. *The implementation should take no longer than six months to complete.*)

E. **Project Reporting:**

1. Within 90 days of approval of the Project Plan, the Respondent shall submit a P2 Project Progress Report to the Department that describes the Respondent's progress in implementing the P2 Project and meeting the requirements in the Plan, and includes a list of equipment ordered, purchased, and/or installed.

2. Within 180 days of approval of the Plan, the Respondent shall submit to the Department a P2 Project Final Report that includes the following.

a. A confirmation that the information presented in Sections A-C of the Summary is unchanged, or an updated version with the sections changed appropriately. A statement that the Project(s) was/were implemented successfully. An explanation of any problems encountered and corrections applied.

b. Attached expense reports, receipts, purchasing instruments and other documents itemizing costs expended on preparing and implementing the Project.

3. The Department shall review the Final Report and determine:

a. Whether the project was properly implemented; and

b. Which expenses apply toward pollution prevention credits.

4. A \$1.00 pollution prevention credit for each \$1.00 spent on applicable costs will be applied against the portion of the civil penalty that can be offset.

a. The following costs are allowable to offset the allowable amount of the civil penalty:

i. Preparation of the P2 Project;

ii. Design of the P2 Project;

iii. Installation of equipment for the P2 Project;

iv. Construction of the P2 Project;

v. Testing of the P2 Project;

vi. Training of staff concerning the implementation of the P2 Project; and

vii. Capital equipment needed for the P2 Project.

b. The following costs shall not apply toward P2 credit:

i. Costs incurred in conducting a waste audit;

ii. Maintenance and operation costs involved in implementing the P2 Project;

iii. Monitoring and reporting costs;

iv. Salaries of employees who perform their job duties;

v. Costs expended to bring the facility into compliance with current law, rules and regulations;

vi. Costs associated with a P2 Project that is not implemented;

vii. Costs associated with a P2 Project that has not been approved by the Department; and

viii. Legal costs.

c. If any balance remains after the entire P2 credit is applied to the allowable portion of the civil penalty, Respondent shall pay the difference within 30 days of written notification by the Department to the Respondent that the balance is due.

5. The Department may terminate the P2 Project at any time during the development or implementation of it, if the Respondent fails to comply with the requirements in this document, act in good faith in preparing and implementing the project, or develop and implement the P2 Project in a timely manner. The Respondent may terminate the P2 Project at any time during its development or implementation.



CITY COUNCIL AGENDA ITEM

COUNCIL MEETING DATE 2/7/2023

SUBJECT: (C10) Resolution No. 23-09 - Approval of First Quarter Budget Amendments for Fiscal Year 2022-2023

DEPARTMENT: Finance

GOAL: 5 - Fiscal Sustainability

RECOMMENDED MOTION: Move to approve Resolution No. 23-09.

SUMMARY: This item is the first quarter of the fiscal year budget review covering the period from October 1 to December 31, 2022. Staff performed a review covering the revenue and expenditure figures through the first quarter to compare the current amounts with the amount budgeted. In addition, a review of departmental operating needs was performed to see if adjustments were warranted. Additionally, there were a couple of project related carry forwards that required adjustment that are a part of this request. These items were discussed with Council at the January 24 workshop.

Staff requests the Council amend the Fiscal Year 2022-2023 budget by revising the budget in total pursuant to itemization contained in Exhibit "A" of the Resolution.

Notable items in the budget amendments include:

1. American Rescue Plan Act (ARPA) Transfer for Public Safety Incentive and Network Security & Infrastructure carry forward
2. Opioid settlement recognition for monies received
3. Prior Year Project Balance Roll for Sun Trail funding
4. Correction of fund for City Center Stormwater Improvements
5. Capital Outlay request from Water and Sewer for replacement of equipment
6. Account for future debt issuance for the new fire engine and ambulance.

PRESENTER: John McKinney

ATTACHMENTS:

1.	Budget Resolution No 23-09	Budget Resolution No 23-09.pdf
----	----------------------------	--------------------------------

John McKinney

Created/Initiated - 1/5/2023

John McKinney
Matthew Jones
Wayne Clark
Robin Fenwick

Approved - 1/27/2023
Approved - 1/27/2023
New -

RESOLUTION NO. 23-09

A RESOLUTION OF THE CITY OF PORT ORANGE, VOLUSIA COUNTY, FLORIDA, PERTAINING TO BUDGET ADJUSTMENTS FOR FISCAL YEAR 2022-23; PROVIDING APPROVAL FOR ADJUSTMENTS OF 2022-2023 BUDGET ADJUSTMENTS; PROVIDING FOR SCRIVENER'S ERRORS; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, on September 21, 2022, the City of Port Orange, adopted Resolution 22-30 approving the City's total operating and capital budgets for Fiscal Year 2022-23; and

WHEREAS, the City of Port Orange adopted Resolution 22-32 on October 4, 2022; Resolution 22-38 on November 15, 2022; and each amending the total operating budget for Fiscal Year 2022-23; and

WHEREAS, in order to recognize unanticipated revenues and expenditures, it is necessary to make adjustments to the City's 2022-23 operating budget.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF PORT ORANGE, VOLUSIA COUNTY, FLORIDA:

Section 1. Approval of 2022-2023 Budget Adjustments. The City's 2022-23 Operating Budget is hereby adjusted as set forth in **Exhibit "A"** attached hereto. As applicable, the transfer of funds may be made from any legally acceptable source.

Section 2. The budget items adopted in the preceding section shall govern the expenditures relating to such items for the City during the ensuing fiscal year effective October 1, 2022 through September 30, 2023.

Section 3. Supplemental appropriations, reductions of appropriations, emergency appropriations, and interdepartmental transfers of appropriations may be affected by the City Council and the City Manager as deemed necessary in strict compliance with the procedures specified in Chapter 2, Article VI, Division 3, Code of Ordinances, City of Port Orange, Florida.

Section 4. Scrivener's Errors. Typographical errors and other matters of a similar nature that do not affect the intent of this Resolution, as determined by the City Clerk and City Attorney, may be corrected.

Section 5. This resolution shall become effective immediately upon adoption.

MAYOR DONALD O. BURNETTE

ATTEST:

Robin Fenwick, MMC, City Clerk

Adopted on the _____ day of _____

Reviewed and Approved: _____
Matthew J. Jones, City Attorney



Exhibit "A"

AMENDED BUDGET FISCAL YEAR 2022 - 23

Fund	Description	Resolution 22-30	Resolution 22-32	Resolution 22-38	Resolution 23-09	Amended Budget
001	General	48,601,261	2,000,000	2,117,105	9,412,895	62,131,261
010	National Opioid Litigation	-	-	-	37,903	37,903
019	Federal Disaster Funds	9,981,987	2,000,000	5,500,000	(9,981,987)	7,500,000
102	Tax Increment - Eastport	416,282	-	-	-	416,282
103	Tax Increment - Town Center	430,819	-	-	-	430,819
106	Recreational Facilities	235,700	-	1,212	-	236,912
109	Building Special Revenue	2,999,775	-	1,053,089	(27)	4,052,837
110	CDBG Special Revenue	777,846	-	300,000	-	1,077,846
199	Grant Special Revenue	286,379	-	285,838	-	572,217
214	Debt Svc GO	901,154	-	-	-	901,154
217	Debt Svc Eastport Tax Note	236,885	-	-	-	236,885
218	Debt Svc Town Center Bonds	402,609	-	-	-	402,609
220	Debt Svc Bonds	1,150,525	-	-	-	1,150,525
301	Capital Projects	2,826,909	-	2,957,971	131,048	5,915,928
306	Transp Cap Projects	150,250	-	150,250	-	300,500
311	Fire Impact Fee	448,000	-	-	-	448,000
312	Transp Impact Fee	551,696	-	770,717	-	1,322,413
317	General Cap Rplcmnt	11,037,097	-	4,719,501	650,714	16,407,312
401	Water / Sewer	29,135,000	-	8,435,902	-	37,570,902
403	W / S R&R	15,560,000	-	31,996,147	4,742,045	52,298,192
405	W / S Impact Fee	165,000	-	5,830,838	-	5,995,838
410	Solid Waste	9,187,000	-	-	2,420	9,189,420
412	Stormwater Utility	5,703,074	-	2,391,601	55,607	8,150,282
413	Stormwater Capital	2,110,640	-	2,467,796	-	4,578,436
414	Drainage Bond Sinking	699,004	-	-	-	699,004
416	Wetland Mitigation	53,945	-	-	(47)	53,898
418	SRF Debt Service	1,698,982	-	-	-	1,698,982
420	Forestry	397,004	-	135,000	12,717	544,721
450	Golf Course Operating	1,898,806	-	42,031	(12,879)	1,927,958
501	Information Technology	2,686,580	-	48,728	293,395	3,028,703
503	Vehicle Maintenance	1,296,831	-	-	(431)	1,296,400
504	Risk Management	2,419,833	-	-	-	2,419,833
505	Lease & Replacement	2,893,815	-	1,846,545	264,264	5,004,624
506	Building Maint	2,620,347	-	554,858	(67)	3,175,138
508	Loan Pool	179,509	-	-	-	179,509
606	Police Benefit Trust	4,900	-	-	-	4,900
607	Police Forfeiture	62,000	-	232,772	-	294,772
611	Recreation Impact Fee	27,000	-	384,462	-	411,462
615	Police Education Trust	10,000	-	-	-	10,000
621	Recreation Scholarship	27,300	-	2,300	-	29,600
625	Federal Police Forfeiture	50,000	-	-	-	50,000
Grand Total:		160,321,744	4,000,000	72,224,663	5,607,570	242,153,977

**Exhibit "A" DETAIL FOR RES. 23-09
STAFF RECOMMENDED ADJUSTMENTS**

FUND	ACCOUNT DESCRIPTION	PROPOSED ADJUSTMENT	Description
GENERAL FUND - 001			
	APPROPRIATED FUND BALANCE	(46,104)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION
	STATE GRANT REVENUE	23,500	STATE GRANT FOR FIRE SERVICES DECONTAMINATION EQUIPMENT
	APPROPRIATED FUND BALANCE	14,882	FIRE SERVICES RADIOS AND DECONTAMINATION EQUIPMENT
	APPROPRIATED FUND BALANCE	8,654,763	RECLASS FUNDING SOURCE FOR APPROVED ARPA PROJECTS
	APPROPRIATED FUND BALANCE	289,500	ONE TIME INCENTIVE PAYMENTS TO POLICE
	APPROPRIATED FUND BALANCE	50,000	SPECIAL ELECTION
	APPROPRIATED FUND BALANCE	250,000	ROLL FORWARD TIP202 APPROVED IT APRA PROJECT
	APPROPRIATED FUND BALANCE	37,500	CONTRACTUAL SERVICES FOR BRISTOL ANALYSIS
	APPROPRIATED FUND BALANCE	25,000	PARK REFERENDUM
	APPROPRIATED FUND BALANCE	113,854	OBM200 FIRE STATION 74 CEILING AND HVAC REPLACEMENT
	REVENUES	9,412,895	
	FLEET FINANCING - FIRE SERVICES	(46,575)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION
	FLEET FINANCING - POLICE	(73,564)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION
	FLEET FINANCING - CODE ENFORCEMENT	869	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION
	FLEET FINANCING - PARKS AND RECREATION	6,934	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION
	FLEET FINANCING - PUBLIC WORKS	66,232	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION
	SALARIES AND WAGES - POLICE	289,500	ONE TIME INCENTIVE PAYMENTS TO POLICE
	CONTRACTUAL SERVICES	50,000	SPECIAL ELECTION
	CONTRACTUAL SERVICES	37,500	CONTRACTUAL SERVICES FOR BRISTOL ANALYSIS
	CONTRACTUAL SERVICES	25,000	PARK REFERENDUM
	MAINTENANCE AND REPAIRS	4,008	FIRE SERVICES RADIO PURCHASE ORDER ROLL FORWARD
	CAPITAL OUTLAY - FIRE	34,374	FIRE SERVICES DECONTAMINATION EQUIPMENT
	INTERFUND TRANSFER EXPENSES	3,654,763	RECLASS FUNDING SOURCE FOR APPROVED ARPA PROJECTS
	TRANSFER OUT - TO FUND 403	5,000,000	PREVIOUSLY APPROVED ARPA FUNDED PROJECT
	TRANSFER OUT - TO FUND 501	250,000	ROLL FORWARD TIP202 APPROVED IT APRA PROJECT
	TRANSFER OUT - TO FUND 317	113,854	OBM200 FIRE STATION 74 CEILING AND HVAC REPLACEMENT
	EXPENDITURES	9,412,895	
NATIONAL OPIOID LITIGATION SETTLEMENT - 010			
	GENERAL REVENUES	37,903	DISTRIBUTION RECEIVED
	REVENUES	37,903	
	CONTRACTUAL SERVICES	37,903	OTHER CONTRACTED SERVICES
	EXPENDITURES	37,903	
FEDERAL DISASTER - 019			
	FEDERAL GRANT REVENUE	(9,981,987)	RECLASS ARPA TO GENERAL FUND FROM FY22 ADJUSTMENT
	REVENUES	(9,981,987)	
	OTHER FINANCING SOURCES	(6,327,224)	RECLASS ARPA TO GENERAL FUND FROM FY22 ADJUSTMENT
	INTERFUND TRANSFER EXPENSES	(3,654,763)	RECLASS FUNDING SOURCE FOR APPROVED ARPA PROJECTS
	EXPENDITURES	(9,981,987)	

COMMUNITY DEVELOPMENT BUILDING - 109			
APPROPRIATED FUND BALANCE	(27)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
	REVENUES	(27)	
FLEET FINANCING -		(27)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION
	EXPENDITURES	(27)	
CAPITAL PROJECTS FUND - 301			
APPROPRIATED FUND BALANCE	(72,464)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
APPROPRIATED FUND BALANCE	93,338	XSG200 RIVER TO SEA LOOP - CORRECT FUND ON ROLL FORWARD	
STATE GRANT REVENUE - COMMUNITY DEVELOPMENT	110,174	XSG200 SUNTRAIL ST JOHNS RIVER-TO-SEA LOOP ADD'L FUNDING	
	REVENUES	131,048	
CAPITAL OUTLAY	203,512	XSG200 SUNTRAIL ST JOHNS RIVER-TO-SEA LOOP PROJECT	
FLEET FINANCING - PUBLIC WORKS	(72,464)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
	EXPENDITURES	131,048	
GENERAL CAPITAL REPLACEMENT - 317			
APPROPRIATED FUND BALANCE	(93,338)	XSG200 RIVER TO SEA LOOP - CORRECT FUND ON ROLL FORWARD	
INSURANCE REIMBURSEMENT	180,198	REC - SABOUNGI INSURANCE REIMBURSEMENT	
TRANSFER IN - TRANSFER FROM FUND 413	450,000	DIP202 CITY CENTER - CORRECT ROLL FORWARD TO FUND 317	
TRANSFER IN - TRANSFER FROM FUND 001	113,854	OBM200 FIRE STATION 74 CEILING AND HVAC REPLACEMENT	
	REVENUES	650,714	
CAPITAL OUTLAY - COMMUNITY DEVELOPMENT	(93,338)	XSG200 RIVER TO SEA LOOP - CORRECT FUND ON ROLL FORWARD	
CAPITAL OUTLAY - STORMWATER	450,000	DIP202 CITY CENTER - CORRECT ROLL FORWARD TO FUND 317	
CAPITAL OUTLAY - PARKS AND RECREATION	180,198	QPC082 REC - SABOUNGI INSURANCE REIMBURSEMENT	
CAPITAL OUTLAY - BUILDING MAINTENANCE	113,854	OBM200 FIRE STATION 74 CEILING AND HVAC REPLACEMENT	
	EXPENDITURES	650,714	
WATER AND SEWER - 401			
	REVENUES	-	
OTHER FINANCING USES -	(757,307)	CAPITAL OUTLAY	
FLEET FINANCING	616	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
CAPITAL OUTLAY - EQUIPMENT	5,000	REFRIGERATOR FOR LAB - R	
CAPITAL OUTLAY - EQUIPMENT	80,000	BYPASS PUMP - A	
CAPITAL OUTLAY - EQUIPMENT	30,000	HDPE FLUSHING MACHINE - A	
CAPITAL OUTLAY - VEHICLES	12,000	GATOR ATV - A	
CAPITAL OUTLAY - EQUIPMENT	60,000	PORTABLE GENERATOR FOR LIFT STATIONS - R	
CAPITAL OUTLAY - BUILDINGS	25,000	STORAGE BUILDING - A	
CAPITAL OUTLAY - EQUIPMENT	40,000	WASTE PUMPS - R	
CAPITAL OUTLAY - EQUIPMENT	45,000	4 SAMPLERS - R	
CAPITAL OUTLAY - EQUIPMENT	30,000	2 RAGLESS IMPELLERS - R	
CAPITAL OUTLAY - EQUIPMENT	12,000	POLYMER MAKEUP SYSTEM - R	
CAPITAL OUTLAY - BUILDINGS	20,000	ROOF - R	
CAPITAL OUTLAY - VEHICLES	13,000	MOWER - A	
CAPITAL OUTLAY - VEHICLES	6,000	TRAILER - R	
CAPITAL OUTLAY - EQUIPMENT	30,000	CHLORINE ANALYZER - R	
CAPITAL OUTLAY - EQUIPMENT	12,000	LOCATOR - A	
CAPITAL OUTLAY - EQUIPMENT	7,500	BORE MACHINE - A	
CAPITAL OUTLAY - WATER AND SEWER	329,191	ROLL FORWARD MPL001 UTILITIES MASTER PLAN	
	EXPENDITURES	-	

WATER AND SEWER R&R FUND - 403			
TRANSFER IN - FROM FUND 001	5,000,000	PREVIOUSLY APPROVED ARPA FUNDED PROJECTS	
APPROPRIATED FUND BALANCE	(257,955)	CORRECT FUND ON ROLL FORWARD MPL001	
	<u>4,742,045</u>		
	REVENUES		
CAPITAL OUTLAY	5,000,000	PREVIOUSLY APPROVED ARPA FUNDED PROJECTS	
CAPITAL OUTLAY	(257,955)	CORRECT FUND ON ROLL FORWARD MPL001	
	<u>4,742,045</u>		
	EXPENDITURES		
SOLID WASTE - 410			
APPROPRIATED FUND BALANCE	2,420	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
	<u>2,420</u>		
	REVENUES		
FLEET FINANCING - SOLID WASTER	2,420	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
	<u>2,420</u>		
	EXPENDITURES		
STORMWATER UTILITY - 412			
APPROPRIATED FUND BALANCE	(20,393)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
APPROPRIATED FUND BALANCE	76,000	CAPITAL EQUIPMENT	
	<u>55,607</u>		
	REVENUES		
FLEET FINANCING - STORMWATER	(20,393)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
CAPITAL OUTLAY - EQUIPMENT	8,000	EXCAVATOR ATTACHMENT - A	
CAPITAL OUTLAY - VEHICLES	18,000	TRAILER - A	
CAPITAL OUTLAY - EQUIPMENT	50,000	PUMP WITH SKID MOUNT - A	
	<u>55,607</u>		
	EXPENDITURES		
STORMWATER UTILITY CAPITAL PROJECTS - 413			
	<u>-</u>		
	REVENUES		
CAPITAL - STORMWATER IMPROVEMENTS	(450,000)	DIP202 CITY CENTER - CORRECT ROLL FORWARD TO FUND 317	
TRANSFER OUT - TRANSFER TO GENERAL CAPITAL REPLACEMENT	450,000	DIP202 CITY CENTER - CORRECT ROLL FORWARD TO FUND 317	
	<u>-</u>		
	EXPENDITURES		
WETLAND MITIGATION - 416			
APPROPRIATED FUND BALANCE	(47)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
	<u>(47)</u>		
	REVENUES		
FLEET FINANCING -	(47)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
	<u>(47)</u>		
	EXPENDITURES		
FORESTRY MANAGEMENT - 420			
APPROPRIATED FUND BALANCE	(1,283)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
APPROPRIATED FUND BALANCE	14,000	CAPITAL EQUIPMENT	
	<u>12,717</u>		
	REVENUES		
FLEET FINANCING - WATER AND SEWER	(1,283)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
CAPITAL OUTLAY - EQUIPMENT	14,000	LIME SPREADER - A	
	<u>12,717</u>		
	EXPENDITURES		

GOLF COURSE - 450			
APPROPRIATED FUND BALANCE	(12,879)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
REVENUES	(12,879)		
FLEET FINANCING - GOLF COURSE	(12,879)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
EXPENDITURES	(12,879)		
INFORMATION TECHNOLOGY - 501			
APPROPRIATED FUND BALANCE	(11,605)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
TRANSFER IN - TRANSFER FROM FUND 001	250,000	ROLL FORWARD TIP202 APPROVED IT APRA PROJECT	
TRANSFER IN - TRANSFER FROM FUND 505	55,000	ZMI016 HARDWARE INFRASTRUCTURE - CORRECT FUND ON ROLL FORWARD	
REVENUES	293,395		
CAPITAL OUTLAY - COMPUTER HARDWARE - CAPITAL	250,000	ROLL FORWARD TIP202 APPROVED IT APRA PROJECT	
CAPITAL OUTLAY - EQUIPMENT	55,000	ZMI016 HARDWARE INFRASTRUCTURE - CORRECT FUND ON ROLL FORWARD	
FLEET FINANCING - INFORMATION TECHNOLOGY	(11,605)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
EXPENDITURES	293,395		
VEHICLE MAINTENANCE - 503			
APPROPRIATED FUND BALANCE	(431)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
REVENUES	(431)		
FLEET FINANCING - VEHICLE MAINTENANCE	(431)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
EXPENDITURES	(431)		
LEASE & REPLACEMENT - 505			
INTERNAL SERVICE FUND FEES	162,264	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
APPROPRIATED FUND BALANCE	102,000	ROLL FORWARD POLICE VEHICLES	
REVENUES	264,264		
CAPITAL - INFORMATION TECHNOLOGY	(55,000)	ZMI016 HARDWARE INFRASTRUCTURE - CORRECT FUND ON ROLL FORWARD	
TRANSFER OUT - TRANSFER TO FUND 501	55,000	ZMI016 HARDWARE INFRASTRUCTURE - CORRECT FUND ON ROLL FORWARD	
OTHER FINANCING USES	162,264	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
CAPITAL - POLICE	36,000	ROLL FORWARD POLICE VEHICLES	
EQUIPMENT RENTAL OR LEASE - POLICE	66,000	POLICE - MOTOR CYCLE LEASE	
EXPENDITURES	264,264		
BUILDING MAINTENANCE - 506			
APPROPRIATED FUND BALANCE	(67)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
REVENUES	(67)		
FLEET FINANCING - BUILDING MAINTENANCE	(67)	UPDATE FLEET FINANCING PER REQUIRED ALLOCATION	
EXPENDITURES	(67)		
	REVENUES		
	5,607,570		
	EXPENDITURES		
	5,607,570		
	VARIANCE		



CITY COUNCIL AGENDA ITEM

COUNCIL MEETING DATE 2/7/2023

SUBJECT: (C11) Approval of Proportionate Fair-Share Agreement for Hampton Manor Site Plan (Case No. 22-80000005)

DEPARTMENT: Community Development

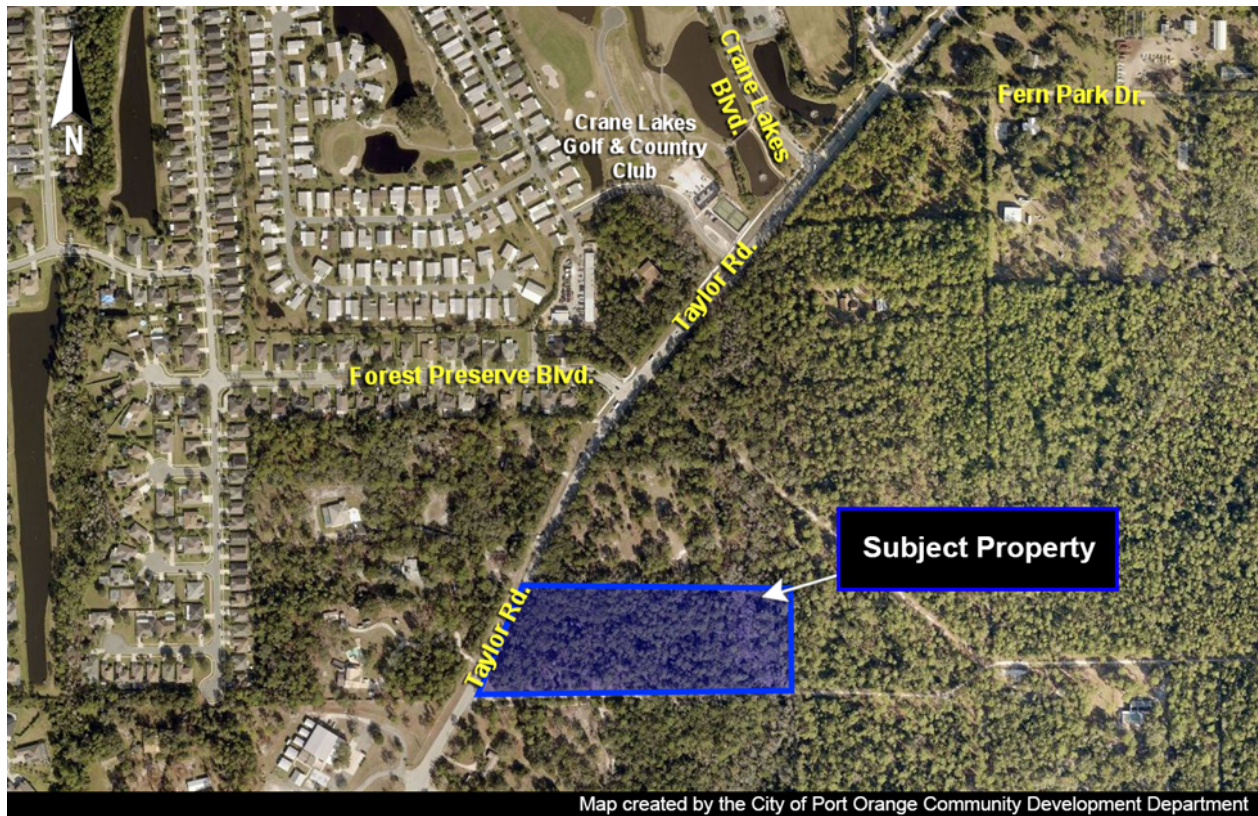
GOAL: 2 - Infrastructure

RECOMMENDED MOTION: Move to approve the Proportionate Fair-Share Agreement for the Hampton Manor Site Plan (Case No. 22-80000005), subject to review and approval by Volusia County; authorize the City Manager to accept modifications requested by the County; and authorize the Mayor and City Clerk to execute all necessary documents.

SUMMARY: The Hampton Manor assisted living facility is proposed to be located at 1815 Taylor Road (see location map below). The proposed Proportionate Fair-Share Agreement has been prepared in conjunction with the site plan for the development of a 90-bed assisted living facility (83,374 square feet) on 9.4 acres, along with associated on-site improvements. The Transportation Impact Technical Memorandum, completed by LTG, Inc. anticipates impacts on Taylor Road, Williamson Boulevard, and the intersection of Taylor Road and Williamson Boulevard upon completion of the project. The technical memorandum was prepared according to the City of Port Orange's adopted guidelines and was reviewed and approved by the City of Port Orange.

Based on the technical memorandum prepared, the developer, Hampton Manor Premier ALF, is required to make a \$73,904.84 fair-share mitigation payment for the 10 PM peak hour trips per day generated by the development. The Proportionate Fair-Share Agreement is to document the number of vested trips being used by the proposed development and to mitigate the impact of the new traffic generated from the development. The fair-share mitigation payment includes a payment to the City of Port Orange and Volusia County: 1) payment of \$36,662 towards the completed City of Port Orange Summer Trees Road project for impacts at the intersection of Williamson Boulevard and Taylor Road; and 2) payment of \$37,242.84 to Volusia County for impacts to Williamson Boulevard and Taylor Road. The Proportionate Fair-Share Agreement has been executed by the property owner and is attached for review. Due to the impact of the project involving both the City of Port Orange and Volusia County, the agreement is required to be approved by the County as well as the City. Once approved by the City, the agreement and supporting documents will be forwarded to the County for review and final approval. It is anticipated to go before the Volusia County Council in February 2023.

The Hampton Manor site is currently zoned Office/Residential Transition (ORT), which allows for the proposed use. The site plan for the proposed project has been reviewed at the staff level and may be approved once all Land Development Code requirements have been met and the required fair-share mitigation payments have been received.



PRESENTER: Tim Burman, Penelope Cruz

ATTACHMENTS:

1.	Hampton Manor Proportionate Fair-Share Agreement w exhibits	Hampton Manor Proportionate Fair-Share Agreement w exhibits.pdf
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Penelope Cruz	Created/Initiated - 12/15/2022
Tim Burman	Approved - 12/19/2022
John McKinney	Approved - 12/20/2022
Shannon Balmer	Approved - 1/6/2023
Wayne Clark	Approved - 1/12/2023
Robin Fenwick	Final Approval - 1/12/2023

HAMPTON MANOR PROPORTIONATE FAIR SHARE AGREEMENT

THIS AGREEMENT is entered into by and between the following entities: **Build Senior Living, LLC** a Michigan limited company whose mailing address is 7300 Village Center Drive, Whitmore Lake, MI 48189 , ("Developer"); **City of Port Orange, Florida**, a Chartered Florida Municipality located in Volusia County, Florida, 1000 City Center Circle, Port Orange, Florida 32129 ("City"); and the **County of Volusia**, a political subdivision of the State of Florida ("County"), mailing address: 123 West Indiana Avenue, DeLand, FL 32720.

WHEREAS, Developer intends to develop nine and four-tenths (+9.4) acres of land generally located at 1815 Taylor Road in Port Orange, Florida, otherwise identified as Parcel Identification Numbers 6225-03-00-0070 (the "Property") as shown in **Exhibit A**; and

WHEREAS, the Property has undergone site plan review by the City of Port Orange to authorize the construction of an 89-bed assisted living facility (83,374 square feet), along with the associated on-site improvements known as Hampton Manor ("Project"); and

WHEREAS, in connection with the site plan review, a technical memorandum of the existing road network in the vicinity of the Project was performed on behalf of the Developer by LTG Engineering & Planning Inc. on December 2, 2022 ("Technical Memorandum") in order to determine the availability of roadway capacity to serve the Project; and

WHEREAS, the results of the Technical Memorandum indicate that insufficient roadway capacity exists in the vicinity of the Property without the anticipated traffic impacts of the Project; and;

WHEREAS, Florida Statutes § 163.3180(5)(h) (2022) authorizes payment of proportionate fair-share mitigation funds as an alternative to demonstrating traffic concurrency in certain circumstances, but specifically exempts backlogged failures from the requirement for proportionate fair share payment; and

WHEREAS, through the Technical Memorandum, certain traffic impacts were identified in the area of the development ("Impact Area"), and payment for such site-related improvements are set forth in this Agreement; and

WHEREAS, LTG Engineering & Planning Inc., in the Technical Memorandum, calculated a proportionate fair share for the total buildout of the Project and offsite traffic improvements based upon a maximum buildout of an 89-bed assisted living facility (83,374 square feet); and

NOW THEREFORE, in consideration of the mutual promises and covenants

contained herein, and with the intent to be legally bound and to bind their successors and assigns, the Developer and County do hereby agree as follows:

1. Recitals. The recitals set forth above are true and correct, form a material part of this Agreement, and are incorporated herein by reference.
2. Roadway Improvements. Developer shall take or shall cause to be taken the following actions to address roadway improvements identified by the City and County as a result of the impacts by the Project ("Roadway Improvements") in order to satisfy concurrency requirements consistent with Chapters 4 and 21 of the City's Land Development Code and Section 72 of the County's Land Development Code:

(a) Proportionate Fair Share. For purposes of this Agreement, the amount of \$73,904.84 referred to herein as "Proportionate Fair Share" as calculated in **Exhibits B and C**, attached hereto and made a part hereof by reference. The Proportionate Fair Share shall be paid as follows: 1) \$37,242.84 shall be paid to the County, as set forth in Exhibit B, and 2) in addition to any Construction of Improvements contemplated in Subsection (b), hereinbelow, \$36,662.00 shall be paid to the City, as set forth in Exhibit C, prior to the issuance of a final site plan approval letter by the City of Port Orange. Once payment is made, the Developer agrees to waive the right to request a return of the Proportionate Fair Share payment. Nothing contained herein shall be deemed to waive the requirements for site plan approval or an issuance of a concurrency certificate under the City of Port Orange's Land Development Code. If Developer does not pay the Proportionate Fair Share within one year of the date of the execution of this Agreement by all parties hereto, then the Proportionate Fair Share shall be revised based on the applicable Florida Department of Transportation published inflationary rate. If the proportionate fair-share amount is not paid prior to December 31, 2023, to meet the buildout date identified in the TIA, then the TIA must be updated and the proportionate fair-share amount recalculated based on conditions at that time. The parties agree that construction of the Roadway Improvements shall be constructed as determined by the City and County, as applicable. Nothing herein is intended to alter, reduce or otherwise waive Developer's right to receive impact fee or capacity credits in connection with the Proportionate Fair Share to the extent that Developer would be entitled to receive such credits. Subsequent to payments received by the City and County, Developer shall be entitled to County thoroughfare road impact fee credits against the payment of the Proportionate Fair Share to the County. County impact fee credits issued as detailed in Exhibit D. For purposes of road impact fee credits against the payment of the Proportionate Fair Share to the City, Developer specifically waives Developer's right to claim any and all City road impact fee credits, except as such credits may be due pursuant to Section 11, Article II, Chapter 21 of the Land Development Code, City of Port Orange, Florida.

(b) Construction of Improvements. If applicable, the Developer may agree to construct, or to have constructed, a portion or all of the Roadway Improvements, referenced in Exhibit C, as full or partial payment towards the City's Proportionate Fair Share

contribution, in accordance with Chapters 4 and 21 of the City's Land Development Code. Construction of the Roadway Improvements will commence and be complete to meet concurrency requirements or mitigate transportation deficiencies within the Project area, in accordance with Chapters 4 and 21 of the City's Land Development Code, prior to the issuance of the first Certificate of Occupancy. All planning, permitting, and construction will be subject to review and approval by the City of Port Orange, County of Volusia, and, if applicable, the Florida Department of Transportation and will comply with the standards and requirements established by the appropriate governmental entities. The Developer will have no responsibility for maintenance or upkeep of the Roadway Improvements.

If the City chooses to accept the construction of all or a portion of the Roadway Improvements as full or partial payment toward the City's Proportionate Fair Share contribution, then, unless otherwise stated herein, completion of the construction of all or a portion of the Roadway Improvements will be accepted as full or partial payment for the City's Proportionate Fair Share contribution. The value of the fully constructed Roadway Improvements applied toward the City's Proportionate Fair Share contribution is based on the actual costs of the constructed Roadway Improvements. Once Roadway Improvements offered as full or partial payment toward the City's Proportionate Fair Share are complete, the Developer shall provide actual costs of said improvements, certified, sealed, and signed by the engineer of record for the Project. If actual costs are less than the estimated costs of constructing said improvements previously provided to the City for consideration toward the City's total Proportionate Fair Share, then Developer shall pay the outstanding balance of the estimate provided in addition to the monies owed to the City's total Proportionate Fair Share. Any additional monies owed and certification of actual costs shall be provided prior to the first Certificate of Occupancy.

(c) County's Application of Proportionate Share. The parties intend that the County will apply the Proportionate Fair Share for the purpose of installing improvements in the Impact Area. Owner acknowledges that it has no right to direct or claim a right to direct the application of the Proportionate Fair Share to making any specific public roadway infrastructure improvements.

(d) City's Application of Proportionate Share. The parties intend that the City will apply the Proportionate Fair Share for the purpose of installing improvements in the Impact Area. Developer acknowledges that it has no right to direct or claim a right to direct the application of the Proportionate Fair Share to making any specific public roadway infrastructure improvements.

3. Developer Acknowledgement/Waiver. Developer acknowledges that the payment of the Proportionate Fair Share does not release the Developer from payment of any other development or building related fees including impact fees, or such other fees as may be prescribed by law.

4. Timing. The parties agree that construction of the Roadway Improvements shall be constructed as determined by the County of Volusia or the City of Port Orange, whichever jurisdiction shall govern said improvements.
5. Effective Date. The effective date this Agreement shall be the last date upon which the County executes this Agreement.
6. Binding Nature of this Agreement. This Agreement shall inure to the benefit of the parties hereto and the subject property, and shall be binding upon any person, firm, or corporation that may become a subsequent owner, successor in interest or assign, directly or indirectly, of the subject property or any portion thereof.
7. Venue. In the event of any claim, action, litigation or proceeding under this Agreement, venue shall be in Volusia County, State of Florida.
8. Recordation. This Agreement will be recorded in the Public Records of Volusia County, Florida, at Developer's expense.
9. Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original but all of which together shall constitute one and the same instrument. The electronic (i.e., facsimile or email) transmittal of an executed copy of this Agreement shall be deemed valid as if an original signature was delivered.

[Remainder of Page Intentionally Left Blank]

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed on behalf of the respective entities, their successors and assigns.

Signed, sealed and delivered in the presence of:

COUNTY OF VOLUSIA, a political subdivision of the State of Florida

Witness 1

Jeffrey S. Brower, County Chair

Print Name of Witness 1

Attest

Witness 2

By: _____

Print Name of Witness 2

George Recktenwald, County Manager

STATE OF FLORIDA
COUNTY OF VOLUSIA

The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization this ____ day of _____, 2023 by Jeffrey S. Brower, County Chair of the County of Volusia, Florida, a political subdivision of the State of Florida, on behalf of the County. They are personally known to me and did not take an oath.

Notary Public _____

Printed Name: _____

Commission No. _____

Approved as to form by:

Russ Brown, Assist County Attorney

Date: _____

Signed, sealed and delivered in the presence of: **CITY OF PORT ORANGE
FLORIDA, a Florida municipal
corporation**

Witness 1

Print Name of Witness 1

By: _____
Donald O. Burnette, Mayor

Witness 2

Print Name of Witness 2

Attest: _____
Robin L. Fenwick, MMC, City Clerk

Date: _____

STATE OF FLORIDA
COUNTY OF VOLUSIA

The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization, this ____ day of _____, 2023 by Donald O. Burnette and Robin L. Fenwick, Mayor and City Clerk, respectively, of The City of Port Orange, Florida, a chartered municipal corporation, on behalf of the City. They are personally known to me and did not take an oath.

Notary Public

Printed Name:

Commission No. _____

Approved as to form by:

Shannon K. Balmer, Assistant City Attorney

WITNESSES:

Printed Name: _____

Printed Name: _____

DEVELOPER:

Build Senior Living, LLC, a Michigan limited liability company

By: _____

Date: _____, 2023

STATE OF FLORIDA
COUNTY OF VOLUSIA

The foregoing instrument was acknowledged by means of [] physical presence or [] online notarization before me this _____ day of _____ 2023, by _____ for Build Senior Living, LLC, who is _____ personally known to me OR _____ produced _____ as identification.

Notary Public, State of Florida at Large

Printed, typed or stamped name, commission and expiration of commission term

EXHIBIT “A”

LOT 7 AND LOT 8, RESUBDIVISION OF LIVINGSTON HOMESTEAD SPRUCE CREEK DISTRICT, IN THE SOUTHEAST $\frac{1}{4}$ OF SECTION 24, TOWNSHIP 16 SOUTH, RANGE 32 EAST, AS PER MAP IN MAP BOOK 10, PAGE 240 OF THE PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA.

Exhibit B

County Application for Impact Fee Credit

Exhibit B – Proportionate Fair Share Calculation for Volusia County

SEGMENTS			FDOT Cost per Lane Mile ¹	Estimated Lane Length (mile) ²	Improvement	Segment Improvement Costs	Additional Costs ³	Cost + Preliminary Engineering & CEI (25%) ⁴	Project Volume	Unimproved Lane Group Capacity	Improved Lane Capacity	Project Share	Proportionate Share
Location	From	To							(a)	(b)	(c)	(d)=a/(c-b)	
Taylor Rd.	Dunlawton Ave.	Clyde Morris Blvd.	Volusia County	0.53	Widen from 2 to 3 lanes (urban)	-	-	\$8,300,000.00	1	1,020	1,340	0.31%	\$25,937.50
Williamson Blvd.	North Pavilion Driveway	Town West Blvd.	Volusia County	0.62	Widen from 2 to 4 lanes (rural)	\$7,083,000.00		\$4,391,460.00	1	1,540	3,410	0.06%	\$2,738.20
	Town West Blvd.	Willow Run Blvd.	Volusia County	0.85	Widen from 2 to 4 lanes (rural)	\$7,083,000.00	\$10,000,000.00	\$16,020,550.00	1	1,540	3,410	0.05%	\$8,567.14
	Willow Run Blvd.	Madeline Ave.	Volusia County	0.81	Widen from 2 to 4 lanes (rural)	\$7,083,000.00		\$5,737,230.00	0	1,540	3,410	0.00%	\$0.00
Segment PS Subtotal:													\$37,242.84

¹Cost from the FDOT LRE Cost-per-Mile unless otherwise stated.

²Turn lanes are measured in feet and unit cost is based on 300 feet.

³Additional Costs for signal structure modifications = \$300,000.

⁴PE-CEI cost estimated at 25% of segment costs.

Exhibit C

City Proportionate Share Calculation



Development Exhibit C – Proportionate Fair Share Calculation for City of Port Orange
Concurrency and Fair-Share Agreement
Transportation Improvement (“TI”)

Development Data:

Development Name	Hampton Manor
Site Address	1815 Taylor Road
City Case No.	22-80000005
Zoning District	Office/Residential Transition and Flood Plain-Conservation
Technical Memorandum Report Date	December 2, 2022
Technical Memorandum Prepared by	George A. Galan, P.E.
Name of Firm	LTG, Inc.
Est. Date of Impact	2024

Developer:

Corporate Entity	Build Senior Living, LLC
Contact Person	Shahid Imran, Managing Director/CEO
Mailing Address	7300 Village Center Drive, Whitmore Lake, MI 48189

Land Owner:

Corporate Entity	N/A
Contact Person	Robert L. Williams and Norma Jill Musson
Mailing Address	1795 Taylor Road, Port Orange, FL 32128

Real Property:

Total Acreage	+/- 9.44 acres
Parcel Number(s)	6225-03-00-0070
Legal Description	Legible real property legal description and sketch attached as EXHIBIT A

Development Exhibit C – Proportionate Fair Share Calculation for City of Port Orange
Concurrency and Fair-Share Agreement
Transportation Improvement (“TI”)

Technical Memorandum Analysis:

Development Name:	Hampton Manor
City Case No.:	22-80000005
Technical Memorandum Report Date	December 2, 2022
Technical Memorandum Prepared by (Firm):	LTG, Inc.
Estimated Date of Impact:	2024

Contribution Calculations: Adjusted December 12, 2022

Impacted Intersections/Road Segments per Transportation Master Concurrency Plan	TI Stage I Reservation Deposit Estimated Cost	TI Stage II Project Cost	TI Stage III Actual Cost	DT/CI Ratio	% of Cost	Contribution Without Multiplier ^[2]
Summer Trees Road Extension [1] OR Book 7486 Page 1855	N/A	N/A	\$3,152,938.60	10/860	1.16%	\$36,662

Total Fair-Share Contribution	Port Orange FSP - \$ 36,662
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Fair Share Projects Dunlawton/Taylor at I-95(PRVCF ORB 5709/4728), Dunlawton/Clyde Morris (PRVCF ORB 5709/4732, and Town West/Williamson (PVRFCF 5709/4736) are completed or fully funded.

[1] City Project Participant - *Eligible for City trans. impact fee credits*

[2] Rounded up to nearest whole dollar

Planning Review: _____ Date _____

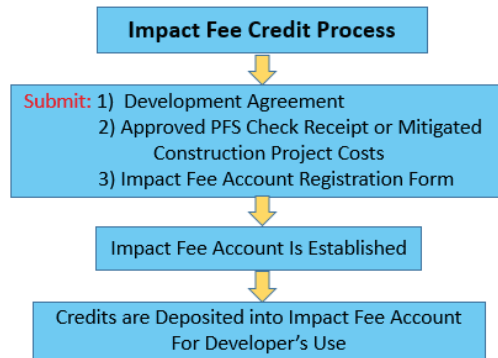
Finance Review: _____ Date _____

Exhibit D

County Proportionate Share Calculation

IMPACT FEE CREDITS

The following steps are required to be able to obtain impact fee credits for PFS payment or construction mitigation improvement:



1. Establish an Impact Fee Credit Account:

- After the PFS payment is made or constructed improvements are complete, contact Engineering & Construction to establish an impact fee credit account and obtain credits. Contact: Storm Kazmierczak (skazmierczak@volusia.org, (386) 736-5967 x12294). Please allow 5-7 business days.
 - For Impact Fee Credits related to PFS Payments, please submit the following supporting documentation to Engineering and Construction:
 - Copy of the project's recorded development agreement
 - Copy of your PFS check and receipt.
 - Completed Volusia County Impact Fee Account Registration form** attached. Registration forms require original signatures. Copies or PDF's will not be accepted.
 - .
 - For Impact fee credits related to Constructed Improvements, please submit the following to Engineering & Construction:
 - Copy of the project's recorded development agreement.
 - Actual costs incurred such as executed construction contracts or contractor invoices. Engineers' estimates are not accepted. An itemized tabulation delineating eligible costs is required when contracts or invoices include ineligible items. Note: Eligible costs include design, permitting, right-of-way (if applicable), and construction & CEI.
 - Completed Volusia County Impact Fee Account Registration form**, attached. Registration forms require original signatures. Copies or PDF's will not be accepted.

***Note: Your Transportation Impact Fee Credit Account is like a bank account. The "List of Person(s) authorized to sign for this account", on the form, will be the people authorized to make withdrawals from your Transportation Impact Fee Credit Account.*

2. Allow Staff to Process Information and Make Deposit:

- The submittal will be reviewed by county engineering staff and additional information may be requested of the applicant.
- Engineering & Construction will deliver the original executed Registration Form to County Growth and Resource Management (GRM). Contact: Beth Branton (bbranton@volusia.org, (386) 736-5924, ext. 12097).
- GRM will not accept executed forms from anyone other than Engineering & Construction.
- GRM will establish the Transportation Impact Fee Credit Account and send the applicant an email with instructions on how to pay County Transportation Impact Fees with credits, or if desired, transfer your credits. Please be aware that the county auditor completes audits of transportation impact fee credit files.

For questions regarding the following, please call:

- **Impact Fee Credit Registration** - Storm Kazmierczak at (386) 736-5967, ext. 12294, skazmierczak@volusia.org
- **Impact Fees or Impact Fee Credit Account balance** - Beth Branton at (386) 736-5924, ext. 12097, bbranton@volusia.org.
- **PFS Agreements**, please contact Russ Brown at [386-736-5950](tel:386-736-5950) x12947, rbrown@volusia.org
- **PFS payments**, please contact Kristen Vieira at 386-736-5968, ext. 12177, kvieira@volusia.org
- **PFS calculations**, please contact Melissa Winsett at 386-736-5968, ext. 12322, mwinsett@volusia.org

The Golf Club at Cypress Head

For the Month Ending October 31, 2022

	10/31/21	11/30/21	12/31/21	01/31/22	02/28/22	03/31/22	04/30/22	05/31/22	06/30/22	07/31/22	08/31/22	09/30/22	10/31/22	YTD2019
REVENUES														
Green Fees & Cart Fees	111,022.18	118,203.96	130,620.88	146,646.41	174,387.59	182,972.82	173,758.14	141,552.86	95,476.77	116,104.71	84,541.09	82,527.75	76,416.40	158,944.15
Merchandise	7,783.55	7,592.30	7,808.70	13,122.82	6,291.91	18,267.01	13,066.12	15,134.23	11,876.71	10,206.64	8,434.76	6,106.00	5,732.44	11,838.44
Other Pro Shop	1,818.00	1,700.00	650.00	2,257.00	4,508.00	1,799.00	1,125.00	1,976.00	3,805.00	2,048.00	1,165.00	1,067.00	850.00	1,917.00
Range	4,310.84	4,561.82	5,204.78	4,490.38	5,083.52	5,383.38	4,817.50	4,512.00	3,733.68	4,056.10	3,180.02	2,262.58	2,957.24	5,219.82
Other Operating Revenues	3,130.20	3,208.69	3,422.54	3,615.24	4,048.58	4,269.48	4,244.57	3,530.17	2,739.74	3,222.79	2,489.12	2,164.82	1,863.48	4,028.30
TOTAL REVENUE	128,064.77	135,266.77	147,706.90	170,131.85	194,319.60	212,691.69	197,011.33	166,705.26	117,631.90	135,638.24	99,809.99	94,128.15	87,819.56	181,947.71
COST OF SALES														
Merchandise	4,727.19	4,444.50	4,694.96	9,569.52	4,398.65	13,796.15	5,096.01	12,425.01	5,846.96	5,006.48	5,262.08	3,673.81	3,551.22	7,225.03
TOTAL COGS	4,727.19	4,444.50	4,694.96	9,569.52	4,398.65	13,796.15	5,096.01	12,425.01	5,846.96	5,006.48	5,262.08	3,673.81	3,551.22	7,225.03
COGS - Merchandise %	60.7%	58.5%	60.1%	72.9%	69.9%	75.5%	39.0%	82.1%	49.2%	49.1%	62.4%	60.2%	61.9%	122.1%
PAYROLL														
Course and Grounds	33,590.91	33,501.70	35,373.15	38,953.74	35,263.11	41,963.35	35,481.09	34,468.36	36,189.69	33,649.77	36,966.52	35,185.19	39,929.59	75,114.78
Carts, Range, Starters, Etc.	9,162.02	8,623.62	8,935.55	8,533.03	8,367.46	9,867.86	10,252.13	9,623.80	9,553.91	10,121.42	7,904.02	7,117.30	8,050.49	15,167.79
Pro Shop	7,711.88	6,846.52	6,739.89	7,310.81	6,802.65	8,052.21	6,387.14	6,971.60	8,661.40	8,204.05	6,904.70	6,814.31	6,958.36	13,772.67
General and Administrative	13,460.46	13,177.65	13,102.54	13,949.10	10,642.11	13,486.78	12,643.91	12,937.87	12,853.40	14,007.58	13,195.59	15,210.90	15,107.25	30,318.15
Marketing	4,217.61	4,525.94	4,504.63	4,233.20	5,532.05	5,541.28	4,090.93	6,733.56	4,678.56	4,808.85	3,970.08	5,954.61	3,811.96	9,766.57
TOTAL PAYROLL	68,142.88	66,675.43	68,655.76	72,979.88	66,607.38	78,911.48	68,855.20	70,735.19	71,936.96	70,791.67	68,940.91	70,282.31	73,857.65	144,139.96
OPERATING EXPENSES														
Course and Grounds	28,660.14	19,071.07	19,683.85	15,865.35	20,881.87	22,943.53	27,514.83	29,643.87	26,914.50	28,096.16	26,704.17	40,992.52	32,582.47	73,574.99
Carts, Range, Starters, Etc.	5,371.44	5,695.18	5,186.50	5,657.69	6,279.93	5,791.82	7,305.48	4,919.14	5,245.82	4,226.77	4,372.60	4,791.98	4,095.25	8,887.23
Pro Shop	165.56	0.00	225.00	39.23	4,304.00	14.26	0.00	19.66	5,504.04	257.32	353.48	190.44	179.65	370.09
General and Administrative	20,413.44	22,535.76	25,091.66	21,972.41	23,561.67	22,153.72	24,792.88	22,349.22	22,288.52	20,040.95	19,379.21	24,140.22	27,755.52	51,895.74
Marketing	1,278.61	3,030.39	1,491.40	1,168.29	872.61	1,338.02	1,802.05	2,710.57	6,158.67	2,002.95	688.48	1,344.02	813.11	2,157.13
TOTAL OPERATING EXPENSE	55,889.19	50,332.40	51,678.41	44,702.97	55,900.08	52,241.35	61,415.24	59,642.46	66,111.55	54,624.15	51,497.94	71,459.18	65,426.00	136,885.18
TOTAL EXPENSES	128,759.26	121,452.33	125,029.13	127,252.37	126,906.11	144,948.98	135,366.45	142,802.66	143,895.47	130,422.30	125,700.93	145,415.30	142,834.87	288,250.17
EBITDA	(694.49)	13,814.44	22,677.77	42,879.48	67,413.49	67,742.71	61,644.88	23,902.60	(26,263.57)	5,215.94	(25,890.94)	(51,287.15)	(55,015.31)	(106,302.46)

The Golf Club at Cypress Head

For the Month Ending October 31, 2022

	10/31/21	11/30/21	12/31/21	01/31/22	02/28/22	03/31/22	04/30/22	05/31/22	06/30/22	07/31/22	08/31/22	09/30/22	10/31/22	YTD2019
EBITDA	(694.49)	13,814.44	22,677.77	42,879.48	67,413.49	67,742.71	61,644.88	23,902.60	(26,263.57)	5,215.94	(25,890.94)	(51,287.15)	(55,015.31)	(106,302.46)
MANAGEMENT FEES	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,433.61)	(6,273.85)	(12,707.46)
Interest Expense - Debt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest Expense - Leases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest Income	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL FINANCING ACTIVITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER INCOME (EXPENSE)														
Non-Operating Revenue	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transfers from County	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Depreciation & Amortization	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(191.06)
Incentive Compensation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Partnership Income/(Loss)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gain/(Loss) On Disposal Of Assets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Expenses / Capital Reserve	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Taxes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL OTHER INCOME (EXPE	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(191.06)
NET INCOME	(7,097.48)	7,411.45	16,274.78	36,476.49	61,010.50	61,339.72	55,241.89	17,499.61	(32,066.56)	(1,187.05)	(32,293.93)	(57,816.29)	(61,384.69)	(119,200.98)
Paid Rounds	3,295.00	3,398.00	3,575.00	3,860.00	4,373.00	4,660.00	4,574.00	3,727.00	3,034.00	3,497.00	2,583.00	2,153.00	2,086.00	4,239.00
Annual Pass Rounds	375.00	334.00	391.00	381.00	443.00	414.00	430.00	400.00	313.00	307.00	307.00	311.00	206.00	517.00
Other Rounds	280.00	261.00	268.00	238.00	243.00	246.00	281.00	301.00	241.00	269.00	233.00	175.00	169.00	344.00
Total Rounds	3,950.00	3,993.00	4,234.00	4,479.00	5,059.00	5,320.00	5,285.00	4,428.00	3,588.00	4,073.00	3,123.00	2,639.00	2,461.00	5,100.00
Revenue/Paid Rounds	38.67	39.81	41.32	44.06	44.44	45.64	43.07	44.73	38.77	38.79	38.64	43.72	42.10	85.62
Revenue/Total Rounds	32.42	33.88	34.89	37.98	38.41	39.98	37.28	37.65	32.78	33.30	31.96	35.67	35.68	71.35
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

The Golf Club at Cypress Head

For the Month Ending October 31, 2022

	<u>10/31/22</u>	<u>09/30/22</u>	<u>10/31/21</u>
ASSETS			
CURRENT ASSETS:			
Cash			
Cash - Depository	241,714	242,333	143,524
Cash - Payroll	37,299	37,304	28,574
Cash - Manual Checks	850	850	850
Cash - Housebank & Other	500	500	500
Total Cash	<u>280,363</u>	<u>280,987</u>	<u>173,448</u>
Accounts Receivable			
A/R Member	<u>1,441</u>	<u>93,810</u>	<u>6,055</u>
Total Accounts Recievable	<u>1,441</u>	<u>93,810</u>	<u>6,055</u>
Other Current Assets			
Inventory - Merchandise	27,378	21,177	24,717
Prepaid Insurance	31,234	38,909	24,322
Prepaid Exp - Other	<u>12,441</u>	<u>12,835</u>	<u>20,687</u>
Total Other Current Assets	<u>71,053</u>	<u>72,922</u>	<u>69,725</u>
TOTAL CURRENT ASSETS	<u>352,857</u>	<u>447,718</u>	<u>249,228</u>
PROPERTY, PLANT AND EQUIPMENT:			
Buildings & Improvements	30,598	30,598	30,598
Machinery & Equipment	<u>5,550</u>	<u>5,550</u>	<u>5,550</u>
Property Plant and Equipment	36,148	36,148	36,148
Accumulated Depreciation	<u>(31,210)</u>	<u>(31,115)</u>	<u>(30,064)</u>
TOTAL PROPERTY, PLANT AND EQUIPMENT	<u>4,938</u>	<u>5,033</u>	<u>6,084</u>
TOTAL ASSETS	<u><u>357,795</u></u>	<u><u>452,752</u></u>	<u><u>255,312</u></u>

The Golf Club at Cypress Head

For the Month Ending October 31, 2022

	<u>10/31/22</u>	<u>09/30/22</u>	<u>10/31/21</u>
LIABILITIES AND STOCKHOLDERS' EQUITY			
CURRENT LIABILITIES:			
Accts Pay - Trade	49,480	53,494	43,078
Accts Pay - Other	(4,721)	(1,164)	(4,033)
Accrued Expenses	500	3,075	2,780
Accrued Payroll	34,460	22,112	22,327
Accrued Taxes	2,904	5,805	15,551
Accrued Interest	0	0	337
Deferred Revenue	<u>212,363</u>	<u>245,237</u>	<u>173,198</u>
TOTAL CURRENT LIABILITIES	<u>294,986</u>	<u>328,559</u>	<u>253,236</u>
 TOTAL LIABILITIES	 <u>294,986</u>	 <u>328,559</u>	 <u>253,236</u>
 STOCKHOLDER'S EQUITY			
Retained Earnings	<u>62,808</u>	<u>124,193</u>	<u>2,076</u>
Net Retained Earnings	<u>62,808</u>	<u>124,193</u>	<u>2,076</u>
Stockholders Equity	<u>62,808</u>	<u>124,193</u>	<u>2,076</u>
TOTAL STOCKHOLDER'S EQUITY	<u>62,808</u>	<u>124,193</u>	<u>2,076</u>
 TOTAL LIABILITIES AND STOCKHOLDER'S EQUITY	 <u><u>357,795</u></u>	 <u><u>452,752</u></u>	 <u><u>255,312</u></u>

The Golf Club at Cypress Head
Comparative Income Statement
For the Month Ending October 31, 2022

	MTD Prior Year	YTD Prior Year	Audited Prior Year	Percent of Total	MTD Actual	YTD Actual	Annual Budget	Percent of Total
REVENUES								
Green Fees & Cart Fees	111,022	111,022	1,557,815	7%	76,416	76,416	1,259,492	6%
Merchandise	7,784	7,784	125,691	6%	5,732	5,732	90,550	6%
Other Pro Shop	1,818	1,818	23,918	8%	850	850	19,063	4%
Range	4,311	4,311	51,597	8%	2,957	2,957	44,300	7%
Other Operating Revenues	3,130	3,130	40,086	8%	1,863	1,863	36,122	5%
TOTAL REVENUE	128,065	128,065	1,799,106	7%	87,820	87,820	1,449,526	6%
COST OF SALES								
Merchandise	4,727	4,727	78,941	6%	3,551	3,551	55,236	6%
TOTAL COGS	4,727	4,727	78,941	6%	3,551	3,551	55,236	6%
COGS - Merchandise %	60.7%	60.7%	62.8%	96.7%	61.9%	61.9%	61.0%	101.6%
PAYROLL								
Course and Grounds	33,591	33,591	430,587	8%	39,930	39,930	416,997	10%
Carts, Range, Starters, Etc.	9,162	9,162	108,062	8%	8,050	8,050	98,064	8%
Pro Shop	7,712	7,712	87,407	9%	6,958	6,958	85,253	8%
General and Administrative	13,460	13,460	158,668	8%	15,107	15,107	160,946	9%
Marketing	4,218	4,218	58,791	7%	3,812	3,812	48,841	8%
TOTAL PAYROLL	68,143	68,143	843,515	8%	73,858	73,858	810,100	9%
OPERATING EXPENSES								
Course and Grounds	28,660	28,660	306,972	9%	32,582	32,582	264,162	12%
Carts, Range, Starters, Etc.	5,371	5,371	64,844	8%	4,095	4,095	88,006	5%
Pro Shop	166	166	11,073	1%	180	180	7,085	3%
General and Administrative	20,413	20,413	268,720	8%	27,756	27,756	227,125	12%
Marketing	1,279	1,279	23,886	5%	813	813	23,190	4%
TOTAL OPERATING EXPENSES	55,889	55,889	675,495	8%	65,426	65,426	609,568	11%
TOTAL EXPENSES	128,759	128,759	1,597,951	8%	142,835	142,835	1,474,903	10%
OTHER INCOME (EXPENSE)								
MANAGEMENT FEES	(6,307)	(6,307)	(75,816)	8%	(6,274)	(6,274)	(76,432)	8%
Depreciation & Amortization	(96)	(96)	(1,146)	8%	(96)	(96)	(1,146)	8%
TOTAL OTHER INCOME (EXPENSE)	(6,403)	(6,403)	(76,962)	8%	(6,369)	(6,369)	(77,578)	8%
NET INCOME	(7,097)	(7,097)	124,193	-6%	(61,385)	(61,385)	(102,955)	60%
Paid Rounds								
Paid Rounds	3,295	3,295	42,729		2,086	2,086	37,780	
Annual Pass Rounds	375	375	4,406		206	206	4,748	
Other Rounds	280	280	3,036		169	169	2,636	
Total Rounds	3,950	3,950	50,171		2,461	2,461	45,164	
Revenue/Paid Rounds	39	39	42		42	42	46	
Revenue/Total Rounds	32	32	36		36	36	39	

**The Golf Club at Cypress Head
Course Cash Flow Report
October 31, 2022**

	<u>October</u>	<u>YTD</u>
EBITDA	(\$55,015.31)	(\$55,015.31)
Management Fee Expense	(6,273.85)	(6,273.85)
Depreciation & Amortization	(95.53)	(95.53)
Net Income	(61,384.69)	(61,384.69)
Working Capital Changes		
Inventory	(6,200.59)	(6,200.59)
Receivables	92,368.49	92,368.49
Payables	(4,013.53)	(4,013.53)
Due to from the City	(3,556.40)	(3,556.40)
Prepays	8,068.92	8,068.92
Accrued Liabilities	6,871.64	6,871.64
Other Liabilities	(32,873.94)	(32,873.94)
Depreciation & Amortization	95.53	95.53
Operating Cash Flow	(624.57)	(624.57)
Investing Cash Flows	<u> </u>	<u> </u>
Financing Cash Flow	<u> </u>	<u> </u>
Net Cash Flows	<u>(624.57)</u>	<u>(624.57)</u>
Beginning Cash	280,987.24	280,987.24
Net Cash Flows	<u>(624.57)</u>	<u>(624.57)</u>
Ending Cash	<u>280,362.67</u>	<u>280,362.67</u>

The Golf Club at Cypress Head
Summary of All Units
For the Month Ending October 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
REVENUES												
47,836	74,662	64%	67,828	71%	Green Fees	47,836	74,662	64%	67,828	71%	990,571	958,533
28,581	38,680	74%	43,194	66%	Cart Fee	28,581	38,680	74%	43,194	66%	534,440	564,676
0	20	0%	20	0%	Handicap Fee	0	20	0%	20	0%	4,130	5,005
790	1,400	56%	1,418	56%	Lessons	790	1,400	56%	1,418	56%	13,590	15,145
60	300	20%	380	16%	Rental Clubs	60	300	20%	380	16%	2,800	2,800
5,732	7,800	73%	7,784	74%	Retail	5,732	7,800	73%	7,784	74%	110,100	123,640
2,957	4,300	69%	4,311	69%	Range	2,957	4,300	69%	4,311	69%	52,400	50,243
1,863	3,100	60%	3,130	60%	City Surcharge R & R	1,863	3,100	60%	3,130	60%	38,100	38,819
87,820	130,262	67%	128,065	69%	Total Revenues	87,820	130,262	67%	128,065	69%	1,746,131	1,758,861
COST OF GOODS SOLD												
3,551	4,992	71%	4,727	75%	COGS - Merchandise	3,551	4,992	71%	4,727	75%	70,464	77,765
3,551	4,992	71%	4,727	75%	Total COGS	3,551	4,992	71%	4,727	75%	70,464	77,765
84,268	125,270	67%	123,338	68%	GROSS MARGIN	84,268	125,270	67%	123,338	68%	1,675,667	1,681,096
61.95%	64.00%	96.80%	60.73%	102.00%	COGS - Merchandise %	61.95%	64.00%	96.80%	60.73%	102.00%	64.00%	740.91%
PAYROLL												
25,247	25,337	100%	23,522	107%	Gross Payroll - Salaried	25,247	25,337	100%	23,522	107%	309,850	301,298
37,234	36,499	102%	33,335	112%	Gross Payroll - Hourly	37,234	36,499	102%	33,335	112%	430,230	418,058
62,481	61,836	101%	56,857	110%	S/T Wages	62,481	61,836	101%	56,857	110%	740,080	719,356
4,579	4,730	97%	4,226	108%	Payroll Tax - FICA	4,579	4,730	97%	4,226	108%	56,616	53,047
27	377	7%	128	21%	Payroll Tax - UC	27	377	7%	128	21%	9,197	2,392
998	1,217	82%	1,031	97%	Payroll Tax - WC	998	1,217	82%	1,031	97%	14,988	13,906
5,773	5,224	111%	5,901	98%	Benefits	5,773	5,224	111%	5,901	98%	63,721	60,529
11,377	11,548	99%	11,286	101%	S/T Adders	11,377	11,548	99%	11,286	101%	144,522	129,874
73,858	73,384	101%	68,143	108%	TOTAL PAYROLL	73,858	73,384	101%	68,143	108%	884,602	849,230
OPERATING EXPENSES												
82	100	82%	76	108%	Cart Supplies	82	100	82%	76	108%	1,200	2,178
751	600	125%	498	151%	Chemicals	751	600	125%	498	151%	7,200	8,279
855	0	0%	0	0%	Course Accessories	855	0	0%	0	0%	4,250	4,839
10,468	11,000	95%	6,592	159%	Fertilizer	10,468	11,000	95%	6,592	159%	58,500	63,187
0	0	0%	0	0%	Flowers/Decor	0	0	0%	0	0%	900	515
2,888	3,100	93%	3,151	92%	Fuel	2,888	3,100	93%	3,151	92%	19,900	21,418
0	300	0%	0	0%	Fungicides	0	300	0%	0	0%	6,400	5,295
0	1,400	0%	1,326	0%	Herbicides	0	1,400	0%	1,326	0%	33,700	13,293
0	500	0%	400	0%	Insecticides	0	500	0%	400	0%	13,100	11,744
160	1,600	10%	1,581	10%	Janitorial Supplies	160	1,600	10%	1,581	10%	8,000	6,004
411	100	411%	160	257%	Laundry/Uniforms	411	100	411%	160	257%	2,200	1,770
832	250	333%	129	646%	Office Supplies	832	250	333%	129	646%	4,200	5,381
0	0	0%	0	0%	Range Balls	0	0	0%	0	0%	3,520	3,520
0	0	0%	0	0%	Range Equipment	0	0	0%	0	0%	1,050	1,067
0	0	0%	0	0%	Range Expenses	0	0	0%	0	0%	2,100	1,629
1,049	0	0%	0	0%	Sand/Topdress	1,049	0	0%	0	0%	15,200	11,319
5,560	4,600	121%	4,320	129%	Seeds/Trees	5,560	4,600	121%	4,320	129%	15,200	10,155
264	300	88%	263	101%	Small Tools	264	300	88%	263	101%	3,200	1,846
180	0	0%	0	0%	Supplies	180	0	0%	0	0%	200	4,042
0	50	0%	59	0%	Tournament Expense	0	50	0%	59	0%	600	184
121	250	48%	119	102%	Alarm System	121	250	48%	119	102%	3,000	2,070
0	50	0%	128	0%	Cart Repairs	0	50	0%	128	0%	1,200	850
160	160	100%	160	100%	Computer Service	160	160	100%	160	100%	1,920	1,918
650	650	100%	0	0%	Contract Cleaning	650	650	100%	0	0%	7,800	8,148
0	0	0%	0	0%	Handicap Expense	0	0	0%	0	0%	5,175	5,297
525	1,100	48%	1,053	50%	Irrigation	525	1,100	48%	1,053	50%	13,200	10,689
0	50	0%	0	0%	Lesson Expense	0	50	0%	0	0%	1,000	350
0	0	0%	0	0%	Repair & Maint - Paths	0	0	0%	0	0%	3,000	0
808	1,600	51%	1,320	61%	Repair & Maint - Equipment	808	1,600	51%	1,320	61%	19,800	29,339
110	150	73%	236	47%	Repair & Maint - Building	110	150	73%	236	47%	9,850	11,672
3,535	5,200	68%	4,216	84%	Cart Lease	3,535	5,200	68%	4,216	84%	43,348	43,348
7,671	7,671	100%	7,499	102%	Equipment Lease	7,671	7,671	100%	7,499	102%	92,052	87,595
206	206	100%	176	117%	Off-Site Storage	206	206	100%	176	117%	2,472	2,067
761	1,150	66%	1,202	63%	Utilities - Electric	761	1,150	66%	1,202	63%	13,800	14,193
3,243	3,800	85%	3,793	86%	Utilities - Other	3,243	3,800	85%	3,793	86%	45,600	45,712
450	200	225%	191	236%	Utilities - Telephone/Fax	450	200	225%	191	236%	2,400	2,472
204	300	68%	252	81%	Utilities - Water	204	300	68%	252	81%	2,600	2,641
813	1,300	63%	1,279	64%	Advertising & Promotion	813	1,300	63%	1,279	64%	23,400	23,421
338	400	85%	391	87%	Bank Charges	338	400	85%	391	87%	4,800	4,094
(37)	0	0%	43	-85%	Cash Short/(Over)	(37)	0	0%	43	-85%	0	(717)
240	240	100%	200	120%	Cell Phone	240	240	100%	200	120%	2,880	2,440
1,863	3,130	60%	3,130	60%	City Surcharge R & R	1,863	3,130	60%	3,130	60%	38,940	38,819
3,971	2,300	173%	2,279	174%	Credit Card Discounts	3,971	2,300	173%	2,279	174%	36,500	44,267
0	0	0%	0	0%	Donations	0	0	0%	0	0%	0	573

The Golf Club at Cypress Head
Summary of All Units
For the Month Ending October 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
930	180	517%	180	517%	Dues & Subscriptions	930	180	517%	180	517%	1,880	2,349
0	0	0%	0	0%	Education & Training	0	0	0%	0	0%	550	400
121	100	121%	50	242%	Employee Relations	121	100	121%	50	242%	2,150	472
0	0	0%	0	0%	Employee Testing	0	0	0%	0	0%	0	58
7,675	6,700	115%	6,130	125%	Insurance Expense	7,675	6,700	115%	6,130	125%	80,400	79,840
0	50	0%	0	0%	Member Relations	0	50	0%	0	0%	600	2,491
0	0	0%	0	0%	Miscellaneous	0	0	0%	0	0%	0	2,081
0	2,200	0%	2,100	0%	O/S - Accounting	0	2,200	0%	2,100	0%	11,200	14,130
0	0	0%	0	0%	O/S - Other	0	0	0%	0	0%	6,000	5,800
378	350	108%	320	118%	Payroll Processing Fee	378	350	108%	320	118%	4,350	5,140
219	100	219%	126	174%	Postage/Shipping	219	100	219%	126	174%	1,750	2,815
(30)	0	0%	(30)	100%	Tax/Licenses/Fees	(30)	0	0%	(30)	100%	150	(120)
0	100	0%	232	0%	Travel - Meals	0	100	0%	232	0%	2,100	883
7,000	100	7000%	564	1240%	Travel - Other	7,000	100	7000%	564	1240%	1,200	9,727
0	0	0%	0	0%	Employee Meals	0	0	0%	0	0%	0	20
65,426	63,687	103%	55,889	117%	TOTAL OPERATING EXPENSES	65,426	63,687	103%	55,889	117%	706,819	685,032
(55,015)	(11,801)	466%	(694)	7922%	EBITDA	(55,015)	(11,801)	466%	(694)	7922%	84,246	146,834
6,274	6,434	98%	6,307	99%	Management Fee	6,274	6,434	98%	6,307	99%	77,208	75,782
6,274	6,434	98%	6,307	99%	Management Fees	6,274	6,434	98%	6,307	99%	77,208	75,782
23	23	100%	23	100%	Deprec - Mach & Equip	23	23	100%	23	100%	277	277
72	72	100%	72	100%	Deprec - Buildings	72	72	100%	72	100%	869	869
96	96	100%	96	100%	S/T DEPR. & AMORT	96	96	100%	96	100%	1,146	1,146
(61,385)	(18,330)	335%	(7,097)	865%	NET INCOME	(61,385)	(18,330)	335%	(7,097)	865%	5,892	69,906

The Golf Club at Cypress Head
Course & Grounds
For the Month Ending October 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
REVENUES												
47,836	74,662	64%	67,828	71%	Green Fees	47,836	74,662	64%	67,828	71%	990,571	958,533
1,863	3,100	60%	3,130	60%	City Surcharge R & R	1,863	3,100	60%	3,130	60%	38,100	38,819
49,699	77,762	64%	70,959	70%	Total Revenues	49,699	77,762	64%	70,959	70%	1,028,671	997,353
49,699	77,762	64%	70,959	70%	GROSS MARGIN	49,699	77,762	64%	70,959	70%	1,028,671	997,353
PAYROLL												
10,213	11,047	92%	9,719	105%	Gross Payroll - Salaried	10,213	11,047	92%	9,719	105%	132,564	123,147
24,432	21,645	113%	18,605	131%	Gross Payroll - Hourly	24,432	21,645	113%	18,605	131%	254,858	249,908
34,645	32,692	106%	28,323	122%	S/T Wages	34,645	32,692	106%	28,323	122%	387,422	373,055
2,562	2,501	102%	2,084	123%	Payroll Tax - FICA	2,562	2,501	102%	2,084	123%	29,638	27,364
5	21	26%	28	20%	Payroll Tax - UC	5	21	26%	28	20%	3,376	1,091
564	643	88%	519	109%	Payroll Tax - WC	564	643	88%	519	109%	7,845	7,200
2,153	2,013	107%	2,637	82%	Benefits	2,153	2,013	107%	2,637	82%	24,532	28,216
5,285	5,178	102%	5,268	100%	S/T Adders	5,285	5,178	102%	5,268	100%	65,391	63,870
39,930	37,871	105%	33,591	119%	TOTAL PAYROLL	39,930	37,871	105%	33,591	119%	452,813	436,925
OPERATING EXPENSES												
751	600	125%	498	151%	Chemicals	751	600	125%	498	151%	7,200	8,279
855	0	0%	0	0%	Course Accessories	855	0	0%	0	0%	4,250	4,839
10,468	11,000	95%	6,592	159%	Fertilizer	10,468	11,000	95%	6,592	159%	58,500	63,187
0	0	0%	0	0%	Flowers/Decor	0	0	0%	0	0%	900	515
2,888	3,100	93%	3,151	92%	Fuel	2,888	3,100	93%	3,151	92%	19,900	21,418
0	300	0%	0	0%	Fungicides	0	300	0%	0	0%	6,400	5,295
0	1,400	0%	1,326	0%	Herbicides	0	1,400	0%	1,326	0%	33,700	13,293
0	500	0%	400	0%	Insecticides	0	500	0%	400	0%	13,100	11,744
1,049	0	0%	0	0%	Sand/Topdress	1,049	0	0%	0	0%	15,200	11,319
5,560	4,600	121%	4,320	129%	Seeds/Trees	5,560	4,600	121%	4,320	129%	15,200	10,155
264	300	88%	263	101%	Small Tools	264	300	88%	263	101%	3,200	1,846
525	1,100	48%	1,053	50%	Irrigation	525	1,100	48%	1,053	50%	13,200	10,689
0	0	0%	0	0%	Repair & Maint - Paths	0	0	0%	0	0%	3,000	0
808	1,600	51%	1,320	61%	Repair & Maint - Equipment	808	1,600	51%	1,320	61%	19,200	25,009
0	0	0%	0	0%	Repair & Maint - Building	0	0	0%	0	0%	3,150	2,133
7,671	7,671	100%	7,499	102%	Equipment Lease	7,671	7,671	100%	7,499	102%	92,052	87,595
283	250	113%	250	113%	Utilities - Electric	283	250	113%	250	113%	3,000	3,236
1,256	1,800	70%	1,738	72%	Utilities - Other	1,256	1,800	70%	1,738	72%	21,600	21,229
204	300	68%	252	81%	Utilities - Water	204	300	68%	252	81%	2,600	2,641
0	0	0%	0	0%	Education & Training	0	0	0%	0	0%	550	400
0	50	0%	0	0%	Employee Relations	0	50	0%	0	0%	600	47
0	0	0%	0	0%	Employee Testing	0	0	0%	0	0%	0	58
0	0	0%	0	0%	O/S - Other	0	0	0%	0	0%	6,000	5,800
0	0	0%	0	0%	Tax/Licenses/Fees	0	0	0%	0	0%	150	165
32,582	34,571	94%	28,660	114%	TOTAL OPERATING EXPENSES	32,582	34,571	94%	28,660	114%	342,652	310,894
(22,813)	5,320	-429%	8,708	-262%	EBITDA	(22,813)	5,320	-429%	8,708	-262%	233,206	249,533
(22,813)	5,320	-429%	8,708	-262%	NET INCOME	(22,813)	5,320	-429%	8,708	-262%	233,206	249,533

The Golf Club at Cypress Head
Carts
For the Month Ending October 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
					REVENUES							
28,581	38,680	74%	43,194	66%	Cart Fee	28,581	38,680	74%	43,194	66%	534,440	564,676
28,581	38,680	74%	43,194	66%	Total Revenues	28,581	38,680	74%	43,194	66%	534,440	564,676
28,581	38,680	74%	43,194	66%	GROSS MARGIN	28,581	38,680	74%	43,194	66%	534,440	564,676
					PAYROLL							
7,376	8,087	91%	8,260	89%	Gross Payroll - Hourly	7,376	8,087	91%	8,260	89%	95,213	96,268
7,376	8,087	91%	8,260	89%	S/T Wages	7,376	8,087	91%	8,260	89%	95,213	96,268
564	619	91%	676	83%	Payroll Tax - FICA	564	619	91%	676	83%	7,284	7,848
19	300	6%	83	22%	Payroll Tax - UC	19	300	6%	83	22%	3,380	959
92	159	58%	143	65%	Payroll Tax - WC	92	159	58%	143	65%	1,928	1,867
0	0	0%	0	0%	Benefits	0	0	0%	0	0%	0	8
675	1,078	63%	902	75%	S/T Adders	675	1,078	63%	902	75%	12,591	10,683
8,050	9,164	88%	9,162	88%	TOTAL PAYROLL	8,050	9,164	88%	9,162	88%	107,804	106,951
					OPERATING EXPENSES							
82	100	82%	76	108%	Cart Supplies	82	100	82%	76	108%	1,200	2,178
0	50	0%	128	0%	Cart Repairs	0	50	0%	128	0%	1,200	850
3,535	5,200	68%	4,216	84%	Cart Lease	3,535	5,200	68%	4,216	84%	62,400	43,348
478	900	53%	953	50%	Utilities - Electric	478	900	53%	953	50%	10,800	10,957
4,095	6,250	66%	5,371	76%	TOTAL OPERATING EXPENSES	4,095	6,250	66%	5,371	76%	75,600	57,333
16,435	23,266	71%	28,660	57%	EBITDA	16,435	23,266	71%	28,660	57%	351,036	400,393
16,435	23,266	71%	28,660	57%	NET INCOME	16,435	23,266	71%	28,660	57%	351,036	400,393

The Golf Club at Cypress Head
Range
For the Month Ending October 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
					REVENUES							
2,957	4,300	69%	4,311	69%	Range	2,957	4,300	69%	4,311	69%	52,400	50,243
2,957	4,300	69%	4,311	69%	Total Revenues	2,957	4,300	69%	4,311	69%	52,400	50,243
2,957	4,300	69%	4,311	69%	GROSS MARGIN	2,957	4,300	69%	4,311	69%	52,400	50,243
					OPERATING EXPENSES							
0	0	0%	0	0%	Range Balls	0	0	0%	0	0%	3,600	3,520
0	0	0%	0	0%	Range Equipment	0	0	0%	0	0%	1,050	1,087
0	0	0%	0	0%	Range Expenses	0	0	0%	0	0%	2,100	1,629
0	0	0%	0	0%	Repair & Maint - Equipment	0	0	0%	0	0%	100	0
0	0	0%	0	0%	TOTAL OPERATING EXPENSES	0	0	0%	0	0%	6,850	6,236
2,957	4,300	69%	4,311	69%	EBITDA	2,957	4,300	69%	4,311	69%	45,550	44,007
2,957	4,300	69%	4,311	69%	NET INCOME	2,957	4,300	69%	4,311	69%	45,550	44,007

The Golf Club at Cypress Head
Golf Shop
For the Month Ending October 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
					REVENUES							
0	20	0%	20	0%	Handicap Fee	0	20	0%	20	0%	4,130	5,005
790	1,400	56%	1,418	56%	Lessons	790	1,400	56%	1,418	56%	13,590	15,145
60	300	20%	380	16%	Rental Clubs	60	300	20%	380	16%	2,800	2,800
5,732	7,800	73%	7,784	74%	Retail	5,732	7,800	73%	7,784	74%	110,100	123,640
6,582	9,520	69%	9,602	69%	Total Revenues	6,582	9,520	69%	9,602	69%	130,620	146,590
					COST OF GOODS SOLD							
3,551	4,992	71%	4,727	75%	COGS - Merchandise	3,551	4,992	71%	4,727	75%	70,464	77,765
3,551	4,992	71%	4,727	75%	Total COGS	3,551	4,992	71%	4,727	75%	70,464	77,765
					GROSS MARGIN							
3,031	4,528	67%	4,874	62%		3,031	4,528	67%	4,874	62%	60,156	68,824
61.95%	64.00%	96.80%	60.73%	102.00%	COGS - Merchandise %	61.95%	64.00%	96.80%	60.73%	102.00%	64.00%	740.91%
					PAYROLL							
400	0	0%	0	0%	Gross Payroll - Salaried	400	0	0%	0	0%	0	400
5,426	6,767	80%	6,470	84%	Gross Payroll - Hourly	5,426	6,767	80%	6,470	84%	80,159	71,882
5,826	6,767	86%	6,470	90%	S/T Wages	5,826	6,767	86%	6,470	90%	80,159	72,282
447	518	86%	501	89%	Payroll Tax - FICA	447	518	86%	501	89%	6,132	5,542
3	41	7%	17	17%	Payroll Tax - UC	3	41	7%	17	17%	1,484	383
86	133	64%	122	70%	Payroll Tax - WC	86	133	64%	122	70%	1,624	1,437
596	579	103%	602	99%	Benefits	596	579	103%	602	99%	7,045	7,008
1,132	1,271	89%	1,242	91%	S/T Adders	1,132	1,271	89%	1,242	91%	16,285	14,371
6,958	8,038	87%	7,712	90%	TOTAL PAYROLL	6,958	8,038	87%	7,712	90%	96,444	86,654
					OPERATING EXPENSES							
0	50	0%	10	0%	Office Supplies	0	50	0%	10	0%	600	266
180	0	0%	0	0%	Supplies	180	0	0%	0	0%	200	4,042
0	50	0%	59	0%	Tournament Expense	0	50	0%	59	0%	600	184
0	0	0%	0	0%	Handicap Expense	0	0	0%	0	0%	5,175	5,297
0	50	0%	0	0%	Lesson Expense	0	50	0%	0	0%	1,000	350
0	0	0%	97	0%	Repair & Maint - Building	0	0	0%	97	0%	0	947
180	150	120%	166	109%	TOTAL OPERATING EXPENSES	180	150	120%	166	109%	7,575	11,087
(4,107)	(3,660)	112%	(3,003)	137%	EBITDA	(4,107)	(3,660)	112%	(3,003)	137%	(43,863)	(28,916)
(4,107)	(3,660)	112%	(3,003)	137%	NET INCOME	(4,107)	(3,660)	112%	(3,003)	137%	(43,863)	(28,916)

The Golf Club at Cypress Head
G & A
For the Month Ending October 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
PAYROLL												
11,219	10,548	106%	10,488	107%	Gross Payroll - Salaried	11,219	10,548	106%	10,488	107%	131,217	129,487
11,219	10,548	106%	10,488	107%	S/T Wages	11,219	10,548	106%	10,488	107%	131,217	129,487
721	807	89%	725	99%	Payroll Tax - FICA	721	807	89%	725	99%	10,038	8,951
0	0	0%	0	0%	Payroll Tax - UC	0	0	0%	0	0%	519	(130)
189	208	91%	186	101%	Payroll Tax - WC	189	208	91%	186	101%	2,658	2,491
2,978	2,590	115%	2,061	144%	Benefits	2,978	2,590	115%	2,061	144%	31,628	19,515
3,888	3,604	108%	2,973	131%	S/T Adders	3,888	3,604	108%	2,973	131%	44,843	30,828
15,107	14,153	107%	13,460	112%	TOTAL PAYROLL	15,107	14,153	107%	13,460	112%	176,060	160,315
OPERATING EXPENSES												
160	1,600	10%	1,581	10%	Janitorial Supplies	160	1,600	10%	1,581	10%	8,000	6,004
411	100	411%	160	257%	Laundry/Uniforms	411	100	411%	160	257%	2,200	1,770
832	200	416%	119	699%	Office Supplies	832	200	416%	119	699%	3,600	5,114
121	250	48%	119	102%	Alarm System	121	250	48%	119	102%	3,000	2,070
160	160	100%	160	100%	Computer Service	160	160	100%	160	100%	1,920	1,918
650	650	100%	0	0%	Contract Cleaning	650	650	100%	0	0%	7,800	8,148
0	0	0%	0	0%	Repair & Maint - Equipment	0	0	0%	0	0%	500	4,330
110	150	73%	139	79%	Repair & Maint - Building	110	150	73%	139	79%	6,700	8,592
206	206	100%	176	117%	Off-Site Storage	206	206	100%	176	117%	2,472	2,067
1,987	2,000	99%	2,054	97%	Utilities - Other	1,987	2,000	99%	2,054	97%	24,000	24,482
450	200	225%	191	236%	Utilities - Telephone/Fax	450	200	225%	191	236%	2,400	2,472
338	400	85%	391	87%	Bank Charges	338	400	85%	391	87%	4,800	4,094
(37)	0	0%	43	-85%	Cash Short/(Over)	(37)	0	0%	43	-85%	0	(717)
240	240	100%	200	120%	Cell Phone	240	240	100%	200	120%	2,880	2,440
1,863	3,130	60%	3,130	60%	City Surcharge R & R	1,863	3,130	60%	3,130	60%	38,940	38,819
3,971	2,300	173%	2,279	174%	Credit Card Discounts	3,971	2,300	173%	2,279	174%	36,500	44,267
0	0	0%	0	0%	Donations	0	0	0%	0	0%	0	573
930	180	517%	180	517%	Dues & Subscriptions	930	180	517%	180	517%	1,880	2,349
121	50	243%	50	242%	Employee Relations	121	50	243%	50	242%	1,550	425
7,675	6,700	115%	6,130	125%	Insurance Expense	7,675	6,700	115%	6,130	125%	80,400	79,840
0	50	0%	0	0%	Member Relations	0	50	0%	0	0%	600	2,491
0	0	0%	0	0%	Miscellaneous	0	0	0%	0	0%	0	2,081
0	2,200	0%	2,100	0%	O/S - Accounting	0	2,200	0%	2,100	0%	11,200	14,130
378	350	108%	320	118%	Payroll Processing Fee	378	350	108%	320	118%	4,350	5,140
219	100	219%	126	174%	Postage/Shipping	219	100	219%	126	174%	1,750	2,815
(30)	0	0%	(30)	100%	Tax/Licenses/Fees	(30)	0	0%	(30)	100%	0	(285)
0	100	0%	232	0%	Travel - Meals	0	100	0%	232	0%	2,100	883
7,000	100	7000%	564	1240%	Travel - Other	7,000	100	7000%	564	1240%	1,200	9,727
0	0	0%	0	0%	Employee Meals	0	0	0%	0	0%	0	20
27,756	21,416	130%	20,413	136%	TOTAL OPERATING EXPENSES	27,756	21,416	130%	20,413	136%	250,742	276,062
(42,863)	(35,569)	121%	(33,874)	127%	EBITDA	(42,863)	(35,569)	121%	(33,874)	127%	(426,802)	(436,376)
6,274	6,434	98%	6,307	99%	Management Fee	6,274	6,434	98%	6,307	99%	77,208	75,782
6,274	6,434	98%	6,307	99%	Management Fees	6,274	6,434	98%	6,307	99%	77,208	75,782
23	23	100%	23	100%	Deprec - Mach & Equip	23	23	100%	23	100%	277	277
72	72	100%	72	100%	Deprec - Buildings	72	72	100%	72	100%	869	869
96	96	100%	96	100%	S/T DEPR. & AMORT	96	96	100%	96	100%	1,146	1,146
(49,232)	(42,098)	117%	(40,277)	122%	NET INCOME	(49,232)	(42,098)	117%	(40,277)	122%	(505,156)	(513,305)

The Golf Club at Cypress Head
Marketing
For the Month Ending October 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
					PAYROLL							
3,415	3,742	91%	3,316	103%	Gross Payroll - Salaried	3,415	3,742	91%	3,316	103%	46,070	48,264
3,415	3,742	91%	3,316	103%	S/T Wages	3,415	3,742	91%	3,316	103%	46,070	48,264
284	286	99%	240	118%	Payroll Tax - FICA	284	286	99%	240	118%	3,524	3,341
0	15	0%	0	0%	Payroll Tax - UC	0	15	0%	0	0%	438	88
67	74	91%	61	110%	Payroll Tax - WC	67	74	91%	61	110%	933	911
46	42	109%	600	8%	Benefits	46	42	109%	600	8%	516	5,782
397	416	95%	902	44%	S/T Adders	397	416	95%	902	44%	5,411	10,122
3,812	4,158	92%	4,218	90%	TOTAL PAYROLL	3,812	4,158	92%	4,218	90%	51,481	58,386
					OPERATING EXPENSES							
813	1,300	63%	1,279	64%	Advertising & Promotion	813	1,300	63%	1,279	64%	23,400	23,421
813	1,300	63%	1,279	64%	TOTAL OPERATING EXPENSES	813	1,300	63%	1,279	64%	23,400	23,421
(4,625)	(5,458)	85%	(5,496)	84%	EBITDA	(4,625)	(5,458)	85%	(5,496)	84%	(74,881)	(81,806)
(4,625)	(5,458)	85%	(5,496)	84%	NET INCOME	(4,625)	(5,458)	85%	(5,496)	84%	(74,881)	(81,806)

The Golf Club at Cypress Head

For the Month Ending October 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
REVENUES												
76,416	113,342	67%	111,022	69%	Green Fees & Cart Fees	76,416	113,342	67%	111,022	69%	1,525,011	1,523,209
5,732	7,800	73%	7,784	74%	Merchandise	5,732	7,800	73%	7,784	74%	110,100	123,640
850	1,720	49%	1,818	47%	Other Pro Shop	850	1,720	49%	1,818	47%	20,520	22,950
2,957	4,300	69%	4,311	69%	Range	2,957	4,300	69%	4,311	69%	52,400	50,243
1,863	3,100	60%	3,130	60%	Other Operating Revenues	1,863	3,100	60%	3,130	60%	38,100	38,819
87,820	130,262	67%	128,065	69%	TOTAL REVENUE	87,820	130,262	67%	128,065	69%	1,746,131	1,758,861
COST OF SALES												
3,551	4,992	71%	4,727	75%	Merchandise	3,551	4,992	71%	4,727	75%	70,464	77,765
3,551	4,992	71%	4,727	75%	TOTAL COGS	3,551	4,992	71%	4,727	75%	70,464	77,765
61.9%	64.0%	96.8%	60.7%	102.0%	COGS - Merchandise %	61.9%	64.0%	96.8%	60.7%	102.0%	64.0%	740.9%
PAYROLL												
39,930	37,871	105%	33,591	119%	Course and Grounds	39,930	37,871	105%	33,591	119%	452,813	436,925
8,050	9,164	88%	9,162	88%	Carts, Range, Starters, Etc.	8,050	9,164	88%	9,162	88%	107,804	106,951
6,958	8,038	87%	7,712	90%	Pro Shop	6,958	8,038	87%	7,712	90%	96,444	86,654
15,107	14,153	107%	13,460	112%	General and Administrative	15,107	14,153	107%	13,460	112%	176,060	160,315
3,812	4,158	92%	4,218	90%	Marketing	3,812	4,158	92%	4,218	90%	51,481	58,386
73,858	73,384	101%	68,143	108%	TOTAL PAYROLL	73,858	73,384	101%	68,143	108%	884,602	849,230
OPERATING EXPENSES												
32,582	34,571	94%	28,660	114%	Course and Grounds	32,582	34,571	94%	28,660	114%	342,652	310,894
4,095	6,250	66%	5,371	76%	Carts, Range, Starters, Etc.	4,095	6,250	66%	5,371	76%	82,450	63,568
180	150	120%	166	109%	Pro Shop	180	150	120%	166	109%	7,575	11,087
27,756	21,416	130%	20,413	136%	General and Administrative	27,756	21,416	130%	20,413	136%	250,742	276,062
813	1,300	63%	1,279	64%	Marketing	813	1,300	63%	1,279	64%	23,400	23,421
65,426	63,687	103%	55,889	117%	TOTAL OPERATING EXPENSES	65,426	63,687	103%	55,889	117%	706,819	685,032
142,835	142,063	101%	128,759	111%	TOTAL EXPENSES	142,835	142,063	101%	128,759	111%	1,661,885	1,612,027
(55,015)	(11,801)	466%	(694)	7922%	EBITDA	(55,015)	(11,801)	466%	(694)	7922%	84,246	146,834

The Golf Club at Cypress Head

For the Month Ending October 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
(55,015)	(11,801)	466%	(694)	7922%	EBITDA	(55,015)	(11,801)	466%	(694)	7922%	84,246	146,834
(6,274)	(6,434)	98%	(6,307)	99%	MANAGEMENT FEES	(6,274)	(6,434)	98%	(6,307)	99%	(77,208)	(75,782)
(96)	(96)	100%	(96)	100%	OTHER INCOME (EXPENSE)	(96)	(96)	100%	(96)	100%	(1,146)	(1,146)
(96)	(96)	100%	(96)	100%	Depreciation & Amortization	(96)	(96)	100%	(96)	100%	(1,146)	(1,146)
(61,385)	(18,330)	335%	(7,097)	865%	NET INCOME	(61,385)	(18,330)	335%	(7,097)	865%	5,892	69,906
2,086	2,586	81%	3,295	63%	Paid Rounds	2,086	2,586	81%	3,295	63%	37,780	41,520
206	361	57%	375	55%	Annual Pass Rounds	206	361	57%	375	55%	4,748	4,237
169	231	73%	280	60%	Other Rounds	169	231	73%	280	60%	2,636	2,925
2,461	3,178	77%	3,950	62%	Total Rounds	2,461	3,178	77%	3,950	62%	45,164	48,682
42	50	84%	39	108%	Revenue/Paid Rounds	42	50	84%	39	108%	46	505
36	41	87%	32	110%	Revenue/Total Rounds	36	41	87%	32	110%	39	429

TRIAL BALANCE SUMMARY FOR 2022

The Golf Club at Cypress Head

General Ledger

Ranges: From:
Date: 10/1/2022
Account: First

To:
10/31/2022
Last

Sorted By: Account
Include: Posting, Unit
Print Currency In: Functional (Z-US\$)

Inactive	Account	Description	Beginning Balance	Debit	Credit	Net Change	Ending Balance
	10020-5950-900	Cash - Course Depository NEW	\$242,332.88	\$151,931.69	\$152,550.54	(\$618.85)	\$241,714.03
	10050-5950-900	Cash - Course Payroll BMO	\$37,304.36	\$49,667.62	\$49,673.34	(\$5.72)	\$37,298.64
	10100-5950-900	Cash - Course Other	\$850.00	\$0.00	\$0.00	\$0.00	\$850.00
	10180-5950-900	Cash - Pro Shop Bank	\$500.00	\$0.00	\$0.00	\$0.00	\$500.00
	11160-5950-900	A/R Member	\$93,809.64	\$5,579.87	\$97,948.36	(\$92,368.49)	\$1,441.15
	12000-5950-900	Inventory - Merchandise	\$21,177.38	\$9,751.81	\$3,551.22	\$6,200.59	\$27,377.97
	13020-5950-900	Prepaid Insurance	\$38,908.94	\$0.00	\$7,675.12	(\$7,675.12)	\$31,233.82
	13040-5950-900	Prepaid Exp - Other	\$12,835.29	\$92.54	\$486.34	(\$393.80)	\$12,441.49
	20100-5950-900	Machinery & Equipment	\$5,550.40	\$0.00	\$0.00	\$0.00	\$5,550.40
	20160-5950-900	Buildings and Improvements	\$30,597.54	\$0.00	\$0.00	\$0.00	\$30,597.54
	22040-5950-900	Accum. Deprec - Mach & Equip	(\$4,716.94)	\$0.00	\$23.12	(\$23.12)	(\$4,740.06)
	22080-5950-900	Accum. Deprec - Buildings	(\$26,397.71)	\$0.00	\$72.41	(\$72.41)	(\$26,470.12)
	30000-5950-900	Accts Pay - Trade	(\$53,493.74)	\$127,467.80	\$123,454.27	\$4,013.53	(\$49,480.21)
	30040-5950-900	Accts Pay - Other	\$1,164.12	\$15,162.04	\$11,605.64	\$3,556.40	\$4,720.52
	31000-5950-900	Accrued Expenses	(\$3,075.00)	\$3,400.00	\$825.00	\$2,575.00	(\$500.00)
	31020-5950-900	Accrued Payroll	(\$22,058.44)	\$10,556.29	\$22,937.16	(\$12,380.87)	(\$34,439.31)
	31080-5950-900	Accrued Tips Payable	(\$54.00)	\$88.00	\$55.00	\$33.00	(\$21.00)
	31220-5950-900	Accrued Sales Tax	(\$5,804.98)	\$7,165.24	\$4,264.01	\$2,901.23	(\$2,903.75)
	31400-5950-900	Accrued City Surcharge	\$0.00	\$1,863.48	\$1,863.48	\$0.00	\$0.00
	32000-5950-900	Deferred Rev - Rainchecks	(\$5,892.87)	\$807.89	\$1,284.60	(\$476.71)	(\$6,369.58)
	32020-5950-900	Deferred Rev - Outing Deposits	(\$26,544.52)	\$2,646.00	\$7,580.85	(\$4,934.85)	(\$31,479.37)
	32040-5950-900	Deferred Rev - Legacy GF Passes	(\$35,079.63)	\$5,679.33	\$0.00	\$5,679.33	(\$29,400.30)
	32050-5950-900	Deferred Revenue - Cypress GF Passes	(\$41,583.75)	\$13,626.93	\$0.00	\$13,626.93	(\$27,956.82)
	32070-5950-900	Deferred Rev - Gift Cards	(\$32,364.80)	\$471.00	\$882.01	(\$411.01)	(\$32,775.81)
	32100-5950-900	Deferred Rev - Credit Books	(\$14,468.54)	\$686.28	\$451.97	\$234.31	(\$14,234.23)
	32120-5950-900	Deferred Rev - Trail Fee Pass	(\$89,302.50)	\$21,140.44	\$1,984.50	\$19,155.94	(\$70,146.56)
	49020-5950-900	Retained Earnings - Current	(\$124,193.13)	\$0.00	\$0.00	\$0.00	(\$124,193.13)
	50000-5950-100	Green Fees - Annual Pass	\$0.00	\$0.00	\$5,214.28	(\$5,214.28)	(\$5,214.28)
	5003A-5950-100	Green Fee - Group	\$0.00	\$0.00	\$6,105.80	(\$6,105.80)	(\$6,105.80)
	50040-5950-100	Green Fees - Member	\$0.00	\$0.00	\$481.33	(\$481.33)	(\$481.33)
	5006A-5950-100	Green Fee - Junior	\$0.00	\$0.00	\$37.60	(\$37.60)	(\$37.60)
	50070-5950-100	Green Fees - (surcharge)	\$0.00	\$1,863.48	\$3,726.96	(\$1,863.48)	(\$1,863.48)
	5007A-5950-100	Green Fee - League	\$0.00	\$0.00	\$6,784.38	(\$6,784.38)	(\$6,784.38)
	5010A-5950-100	Green Fee - Non-Resident (Standard)	\$0.00	\$0.00	\$1,498.54	(\$1,498.54)	(\$1,498.54)
	5012A-5950-100	Green Fee - Outing	\$0.00	\$0.00	\$3,190.22	(\$3,190.22)	(\$3,190.22)
	5014A-5950-100	Green Fee - Resident	\$0.00	\$0.00	\$15,146.83	(\$15,146.83)	(\$15,146.83)
	5015A-5950-100	Green Fee - Senior	\$0.00	\$0.00	\$7,152.57	(\$7,152.57)	(\$7,152.57)
	5019A-5950-100	Green Fee - Wholesale	\$0.00	\$0.00	\$360.84	(\$360.84)	(\$360.84)
	50500-5950-200	Cart Fee 18	\$0.00	\$0.00	\$21,662.34	(\$21,662.34)	(\$21,662.34)
	50520-5950-200	Cart Fee - Annual Trail	\$0.00	\$0.00	\$6,918.19	(\$6,918.19)	(\$6,918.19)
	52150-5950-600	Lessons	\$0.00	\$0.00	\$790.00	(\$790.00)	(\$790.00)
	52280-5950-600	Rental Clubs	\$0.00	\$0.00	\$60.00	(\$60.00)	(\$60.00)
	52310-5950-600	Retail	\$0.00	\$0.00	\$5,732.44	(\$5,732.44)	(\$5,732.44)
	53050-5950-220	Range Pass Revenue	\$0.00	\$0.00	\$2,957.24	(\$2,957.24)	(\$2,957.24)
	56120-5950-100	City Surcharge R & R	\$0.00	\$0.00	\$1,863.48	(\$1,863.48)	(\$1,863.48)
	60000-5950-600	COGS - Merchandise - Accessories	\$0.00	\$3,551.22	\$0.00	\$3,551.22	\$3,551.22
	70000-5950-100	Gross Payroll - Salaried	\$0.00	\$12,762.39	\$2,549.30	\$10,213.09	\$10,213.09
	70000-5950-600	Gross Payroll - Salaried	\$0.00	\$400.00	\$0.00	\$400.00	\$400.00
	70000-5950-900	Gross Payroll - Salaried	\$0.00	\$13,645.76	\$2,426.81	\$11,218.95	\$11,218.95
	70000-5950-950	Gross Payroll - Salaried	\$0.00	\$4,521.48	\$1,106.65	\$3,414.83	\$3,414.83
	70010-5950-100	Gross Payroll - Hourly	\$0.00	\$26,449.14	\$2,017.16	\$24,431.98	\$24,431.98
	70010-5950-200	Gross Payroll - Hourly	\$0.00	\$8,364.44	\$988.73	\$7,375.71	\$7,375.71
	70010-5950-600	Gross Payroll - Hourly	\$0.00	\$6,615.73	\$1,189.33	\$5,426.40	\$5,426.40

Inactive	Account	Description	Beginning Balance	Debit	Credit	Net Change	Ending Balance
	71000-5950-100	Payroll Tax - FICA	\$0.00	\$2,911.35	\$349.34	\$2,562.01	\$2,562.01
	71000-5950-200	Payroll Tax - FICA	\$0.00	\$639.84	\$75.62	\$564.22	\$564.22
	71000-5950-600	Payroll Tax - FICA	\$0.00	\$503.97	\$56.71	\$447.26	\$447.26
	71000-5950-900	Payroll Tax - FICA	\$0.00	\$906.87	\$185.65	\$721.22	\$721.22
	71000-5950-950	Payroll Tax - FICA	\$0.00	\$343.21	\$58.99	\$284.22	\$284.22
	71010-5950-100	Payroll Tax - UC	\$0.00	\$5.46	\$0.00	\$5.46	\$5.46
	71010-5950-200	Payroll Tax - UC	\$0.00	\$18.52	\$0.00	\$18.52	\$18.52
	71010-5950-600	Payroll Tax - UC	\$0.00	\$2.87	\$0.00	\$2.87	\$2.87
	71020-5950-100	Payroll Tax - WC	\$0.00	\$564.05	\$0.00	\$564.05	\$564.05
	71020-5950-200	Payroll Tax - WC	\$0.00	\$92.04	\$0.00	\$92.04	\$92.04
	71020-5950-600	Payroll Tax - WC	\$0.00	\$85.51	\$0.00	\$85.51	\$85.51
	71020-5950-900	Payroll Tax - WC	\$0.00	\$189.16	\$0.00	\$189.16	\$189.16
	71020-5950-950	Payroll Tax - WC	\$0.00	\$67.26	\$0.00	\$67.26	\$67.26
	71030-5950-100	Benefits	\$0.00	\$5,399.31	\$3,246.31	\$2,153.00	\$2,153.00
	71030-5950-600	Benefits	\$0.00	\$1,044.19	\$447.87	\$596.32	\$596.32
	71030-5950-900	Benefits	\$0.00	\$5,070.60	\$2,092.68	\$2,977.92	\$2,977.92
	71030-5950-950	Benefits	\$0.00	\$251.51	\$205.86	\$45.65	\$45.65
	80110-5950-200	Cart Supplies	\$0.00	\$82.19	\$0.00	\$82.19	\$82.19
	80120-5950-100	Chemicals	\$0.00	\$750.77	\$0.00	\$750.77	\$750.77
	80170-5950-100	Course Accessories	\$0.00	\$855.44	\$0.00	\$855.44	\$855.44
	80230-5950-100	Fertilizer	\$0.00	\$10,467.70	\$0.00	\$10,467.70	\$10,467.70
	80270-5950-100	Fuel	\$0.00	\$2,888.49	\$0.00	\$2,888.49	\$2,888.49
	80380-5950-900	Janitorial Supplies	\$0.00	\$160.00	\$0.00	\$160.00	\$160.00
	80420-5950-900	Laundry/Uniforms	\$0.00	\$410.93	\$0.00	\$410.93	\$410.93
	80520-5950-900	Office Supplies	\$0.00	\$836.82	\$5.16	\$831.66	\$831.66
	80690-5950-100	Sand/Topdress	\$0.00	\$6,608.64	\$5,560.00	\$1,048.64	\$1,048.64
	80710-5950-100	Seeds/Trees	\$0.00	\$8,810.00	\$3,250.00	\$5,560.00	\$5,560.00
	80730-5950-100	Small Tools	\$0.00	\$263.97	\$0.00	\$263.97	\$263.97
	80780-5950-600	Supplies	\$0.00	\$179.65	\$0.00	\$179.65	\$179.65
	81010-5950-900	Alarm System	\$0.00	\$120.50	\$0.00	\$120.50	\$120.50
	81130-5950-900	Computer Service	\$0.00	\$159.84	\$0.00	\$159.84	\$159.84
	81140-5950-900	Contract Cleaning	\$0.00	\$650.00	\$0.00	\$650.00	\$650.00
	81250-5950-100	Irrigation	\$0.00	\$525.00	\$0.00	\$525.00	\$525.00
	81350-5950-100	Repair & Maint - Equipment	\$0.00	\$808.01	\$0.00	\$808.01	\$808.01
	81360-5950-900	Repair & Maint - Building	\$0.00	\$110.00	\$0.00	\$110.00	\$110.00
	82000-5950-200	Cart Lease	\$0.00	\$3,535.00	\$0.00	\$3,535.00	\$3,535.00
	82020-5950-100	Equipment Lease	\$0.00	\$7,671.00	\$0.00	\$7,671.00	\$7,671.00
	82060-5950-900	Off-Site Storage	\$0.00	\$206.00	\$0.00	\$206.00	\$206.00
	83000-5950-100	Utilities - Electric	\$0.00	\$283.21	\$0.00	\$283.21	\$283.21
	83000-5950-200	Utilities - Electric	\$0.00	\$478.06	\$0.00	\$478.06	\$478.06
	83020-5950-100	Utilities - Other	\$0.00	\$1,255.88	\$0.00	\$1,255.88	\$1,255.88
	83020-5950-900	Utilities - Other	\$0.00	\$1,987.19	\$0.00	\$1,987.19	\$1,987.19
	83030-5950-900	Utilities - Telephone/Fax	\$0.00	\$599.64	\$150.00	\$449.64	\$449.64
	83050-5950-100	Utilities - Water	\$0.00	\$204.36	\$0.00	\$204.36	\$204.36
	84040-5950-950	Adv/Promo - Mktg/Bus Dev	\$0.00	\$813.11	\$0.00	\$813.11	\$813.11
	85020-5950-900	Bank Charges	\$0.00	\$338.36	\$0.00	\$338.36	\$338.36
	85050-5950-900	Cash Short/(Over)	\$0.00	\$113.30	\$149.80	(\$36.50)	(\$36.50)
	85060-5950-900	Cell Phone	\$0.00	\$240.00	\$0.00	\$240.00	\$240.00
	85070-5950-900	City Surcharge R & R	\$0.00	\$1,863.48	\$0.00	\$1,863.48	\$1,863.48
	85120-5950-900	Credit Card Discounts	\$0.00	\$3,970.78	\$0.00	\$3,970.78	\$3,970.78
	85150-5950-900	Dues & Subscriptions	\$0.00	\$930.00	\$0.00	\$930.00	\$930.00
	85190-5950-900	Employee Relations	\$0.00	\$177.60	\$56.26	\$121.34	\$121.34
	85280-5950-900	Insurance Expense	\$0.00	\$7,675.12	\$0.00	\$7,675.12	\$7,675.12
	85480-5950-900	Payroll Processing Fee	\$0.00	\$404.69	\$27.00	\$377.69	\$377.69
	85490-5950-900	Postage/Shipping	\$0.00	\$219.49	\$0.00	\$219.49	\$219.49
	85610-5950-900	Tax/Licenses/Fees	\$0.00	\$0.00	\$30.00	(\$30.00)	(\$30.00)
	85720-5950-900	Travel - Other	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$7,000.00
	90000-5950-900	Management Fee	\$0.00	\$6,400.00	\$126.15	\$6,273.85	\$6,273.85
	98020-5950-900	Deprec - Mach & Equip	\$0.00	\$23.12	\$0.00	\$23.12	\$23.12
	98040-5950-900	Deprec - Buildings	\$0.00	\$72.41	\$0.00	\$72.41	\$72.41

TRIAL BALANCE SUMMARY FOR 2022
The Golf Club at Cypress Head

Inactive	Account	Description	Beginning Balance	Debit	Credit	Net Change	Ending Balance	
	R002A-5950-100	Rounds - Annual	8,424.00	206.00	0.00	206.00	8,630.00	
	R003A-5950-100	Rounds - Group	9,972.00	357.00	0.00	357.00	10,329.00	
	R005A-5950-100	Rounds - Green Fee - Hotel	42.00	0.00	0.00	0.00	42.00	
	R006A-5950-100	Rounds - Green Fee - Junior	1,286.00	10.00	0.00	10.00	1,296.00	
	R007A-5950-100	Rounds - Green Fee - League	11,736.00	327.00	0.00	327.00	12,063.00	
	R010A-5950-100	Rounds - Green Fee - Non-Resident (Standard)	3,653.00	48.00	0.00	48.00	3,701.00	
	R011A-5950-100	Rounds - Green Fee - Non-Revenue	431.00	17.00	0.00	17.00	448.00	
	R012A-5950-100	Rounds - Green Fee - Outing	5,910.00	106.00	0.00	106.00	6,016.00	
	R014A-5950-100	Rounds - Resident	36,430.00	948.00	0.00	948.00	37,378.00	
	R015A-5950-100	Rounds - Green Fee - Senior	13,701.00	278.00	0.00	278.00	13,979.00	
	R016A-5950-100	Rounds - Green Fee - Staff	3,083.00	102.00	0.00	102.00	3,185.00	
	R017A-5950-100	Rounds - Green Fee - Trade	2,265.00	50.00	0.00	50.00	2,315.00	
	R019A-5950-100	Rounds - Green Fee - Wholesale	208.00	12.00	0.00	12.00	220.00	
	RCMWD-5950-100	Rounds - Complimentary - Weekday	15,846.00	0.00	0.00	0.00	15,846.00	
	REMWD-5950-100	Rounds - Employee - Weekday	21,589.00	0.00	0.00	0.00	21,589.00	
	RMBWD-5950-100	Rounds - Member - Weekday	80,170.00	0.00	0.00	0.00	80,170.00	
	RPKWD-5950-100	Rounds - Peak - Weekday	450,023.00	0.00	0.00	0.00	450,023.00	
	RPKWE-5950-100	Rounds - Peak - Weekend	5,071.00	0.00	0.00	0.00	5,071.00	
			<u>Accounts</u>	<u>Beginning Balance</u>	<u>Debit</u>	<u>Credit</u>	<u>Net Change</u>	<u>Ending Balance</u>
Grand Totals:			131	\$0.00	\$605,203.36	\$605,203.36	\$0.00	\$0.00

The Golf Club at Cypress Head
Course Cash Flow Report
For the Year Ended October 31, 2022

	OCT Actual	NOV Actual	DEC Actual	JAN Actual	FEB Actual	MAR Actual	APR Actual	MAY Actual	JUN Actual	JUL Actual	AUG Actual	SEP Actual
EBITDA	(55,015)	0	0	0	0	0	0	0	0	0	0	0
Management Fee Expense	(6,274)	0	0	0	0	0	0	0	0	0	0	0
Depreciation & Amortization	(96)	0	0	0	0	0	0	0	0	0	0	0
Net Income	(61,385)	0	0	0	0	0	0	0	0	0	0	0
Working Capital Changes												
Inventory	(6,201)	0	0	0	0	0	0	0	0	0	0	0
Receivables	92,368	0	0	0	0	0	0	0	0	0	0	0
Prepaid Expenses	8,069	0	0	0	0	0	0	0	0	0	0	0
Payables	(4,014)	0	0	0	0	0	0	0	0	0	0	0
Due to from the City	(3,556)	0	0	0	0	0	0	0	0	0	0	0
Accrued Expenses	6,872	0	0	0	0	0	0	0	0	0	0	0
Deferred Revenues	(32,874)	0	0	0	0	0	0	0	0	0	0	0
Depreciation & Amortization	96	0	0	0	0	0	0	0	0	0	0	0
Operating Cash Flow	(625)	0	0	0	0	0	0	0	0	0	0	0
Investing Activities												
Financing Activities												
Net Cash Flows	(625)	0	0	0	0	0	0	0	0	0	0	0
Beginning Cash	280,987	280,363	330,499	330,499	330,499	330,499	330,499	330,499	330,499	330,499	330,499	330,499
Net Cash Flows	(625)	0	0	0	0	0	0	0	0	0	0	0
Ending Cash	280,363	280,363	330,499	330,499	330,499	330,499	330,499	330,499	330,499	330,499	330,499	330,499



November 17, 2022

Robin Fenwick
City of Port Orange
1000 City Center Circle
Port Orange, FL 32129

Dear Ms. Fenwick,

The following is the financial and operational summary report for October 2022 at Cypress Head Golf Club. These numbers reflect only the Golf portion for the month and year to date.

FINANCIAL SUMMARY FOR GOLF MONTH ENDING OCTOBER 2022								
	Current				Year to Date			
	Actual	Budget	Variance vs. Budget		Actual	Budget	Prior Year	Variance vs. Budget
Revenue								
Green Fees	\$ 47,836	\$ 74,662	\$ (26,826)		\$ 47,836	\$ 74,662	\$ 67,828	\$ (26,826)
Cart Fees	\$ 28,581	\$ 38,680	\$ (10,099)		\$ 28,581	\$ 38,680	\$ 43,194	\$ (10,099)
Range	\$ 2,957	\$ 4,300	\$ (1,343)		\$ 2,957	\$ 4,300	\$ 4,311	\$ (1,343)
Pro- Shop Revenues	\$ 6,582	\$ 9,520	\$ (2,938)		\$ 6,582	\$ 9,520	\$ 9,602	\$ (2,938)
City Surcharge R/R	\$ 1,863	\$ 3,100	\$ (1,237)		\$ 1,863	\$ 3,100	\$ 3,130	\$ (1,237)
Total Revenue	\$ 87,819	\$ 130,262	\$ (42,443)		\$ 87,819	\$ 130,262	\$ 128,065	\$ (42,443)
Cost of Sales	\$ 3,551	\$ 4,992	\$ (1,441)		\$ 3,551	\$ 4,992	\$ 4,727	\$ (1,441)
Merchandise	\$ 3,551	\$ 4,992	\$ (1,441)	49%	\$ 3,551	\$ 4,992	\$ 4,727	\$ (1,441) 62%
Gross Margin	\$ 84,268	\$ 125,270	\$ (41,002)		\$ 84,268	\$ 125,270	\$ 123,338	\$ (41,002)
Total Payroll	\$ 73,858	\$ 73,384	\$ 474		\$ 73,858	\$ 73,384	\$ 68,143	\$ 474
Total Operating Expenses	\$ 65,426	\$ 63,687	\$ 1,739		\$ 65,426	\$ 63,687	\$ 55,889	\$ 1,739
EBITDA	\$ (55,016)	\$ (11,801)	\$ (43,215)		\$ (55,016)	\$ (11,801)	\$ (694)	\$ (43,215)
Other Expenses	\$ 6,370	\$ 6,530	\$ (160)		\$ 6,370	\$ 6,530	\$ 6,403	\$ (160)
Management Fee	\$ 6,274	\$ 6,434	\$ (160)		\$ 6,274	\$ 6,434	\$ 6,307	\$ (160)
Interest Expense	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -
Depreciation	\$ 96	\$ 96	\$ -		\$ 96	\$ 96	\$ 96	\$ -
Net Cash From Ops	\$ (61,386)	\$ (18,331)	\$ (43,055)		\$ (61,386)	\$ (18,331)	\$ (7,097)	\$ (43,055)
Rounds								
Total Rounds	2,461	3,178	(717)		2,461	3,178	3,950	(717)
Paid Rounds	2,086	2,586	(500)		2,086	2,586	3,295	(500)
Avg. GF/CF Total rounds	\$31.05	\$35.66	\$ (4.61)		\$31.05	\$35.66	\$28.11	\$ (4.61)
Avg. GF/CF Paid rounds	\$36.63	\$43.83	\$ (7.20)		\$36.63	\$43.83	\$33.69	\$ (7.20)
Avg. Merchandise/round	\$2.67	\$3.00	\$ (0.32)		\$2.67	\$3.00	\$2.43	\$ (0.32)

Overview:

- Overall golf revenues for October finished well below projected budget for the month. The golf course was closed for 2 weeks after Hurricane Ian made landfall. After some diligent efforts of the Course & Grounds team, we were able to re-open 9 holes on October 12. The flooding receded and we were able to completely open up all 18 holes on October 15. All in all we had 17 playable days and averaged 145 rounds per playable day. Revenues missed by \$42.4K as a result of so many missed days. We played 2,461 total rounds to a budget of 3,178 (under by 717).
- Total payroll for the month was very close to budget, over by only \$474. The team did an incredible job of clearing debris and getting the golf course back into playable condition. Jeff Dayton assumed the role as General Manager on October 20 and received a warm welcome from the team who has been performing admirably in the absence of a GM during the first 3 weeks of October. Darren Bache, Susanne Snider, Reggie Hunter, and Dylan Quintrell have done a great job leading the team during this time.
- Starting out the new fiscal year with 2 weeks closed was obviously not ideal, but with all that Port Orange residents are dealing with, it is a very minor problem. While we are starting the year behind in rounds, revenue, and EBITDA, we anticipate a strong rebound in November and the months to come.

CAPEX Projects:

- There were no projects for the month of October 2022, but mostly cleanup and recovery. We are in the process of

Tee Sheet Activity:

- There were 2,461 total rounds for the month which included 2,086 paid rounds, 206 Annual with Cypress Pass member rounds and 169 other rounds. The round type for the month included 1,811 eighteen-hole rounds and 650 nine-hole rounds.
- The Golf staff continues to monitor daily tee sheet activity and they are trained to recognize underutilization of the tee sheet and offer promotional prices through the website and GolfNow to

increase the number of potential players. There will be some modifications to league shotgun times and blocking the tee sheet best practices forthcoming.

October 2022 and YTD Rounds Mix

Type	Actual	Budget	Month-PY	YTD	YTD-Budg	YTD - PY
PAID	2086	2586	3295	2086	2586	3295
ANNUAL	206	361	375	206	361	375
OTHER	169	231	280	169	231	231
TOTAL ROUNDS	2461	3178	3950	2461	3178	3901

Departmental Summaries:

Course & Grounds/Range

- Our superintendent, Darren Bache continues to follow the agronomic program that he developed for Cypress Head and along with his guidance, Cypress Head is ranked as the Best Golf Course for both Flagler and Volusia Counties.
- We had 24" of rain in October as a result of Hurricane Ian, so keeping up with mowing frequency and repairing bunkers was challenging and time consuming. We were able to fertilize the course at the end of the month and get some much-needed tree work completed. We are preparing for over seeding in November.

Golf Shop/Carts

- Custom golf club sales continue to trend well. We will be increasing our inventory of hard goods, especially as the new generations of equipment become available to the market in the coming months. Fitting dates are being finalized with multiple vendors to offer club fitting opportunities to the residents of Port Orange.
- We continue to follow all regular maintenance procedures regarding the cart fleet which includes registering monthly totals for battery amperage and mileage. The relatively new fleet of golf carts are performing nicely with just some minor repairs occasionally.

- The staff at Cypress Head Golf Course continues to offer individual lessons as well as group lessons. Of course, the weather affected lessons as well as golf and range traffic throughout the month and especially most of October. Jeff is committed to Player Development and our Monday clinics will start up in November.
- The MGA and the WGA have continued their league play for the month and we have seen an increase in players as a result of incredible course conditions and an influx of new home purchases in the area.
- We hosted two high school District tournaments in the last half of October, one for girls and one for boys. The participation was great with over 120 players and the course reviews were very positive.

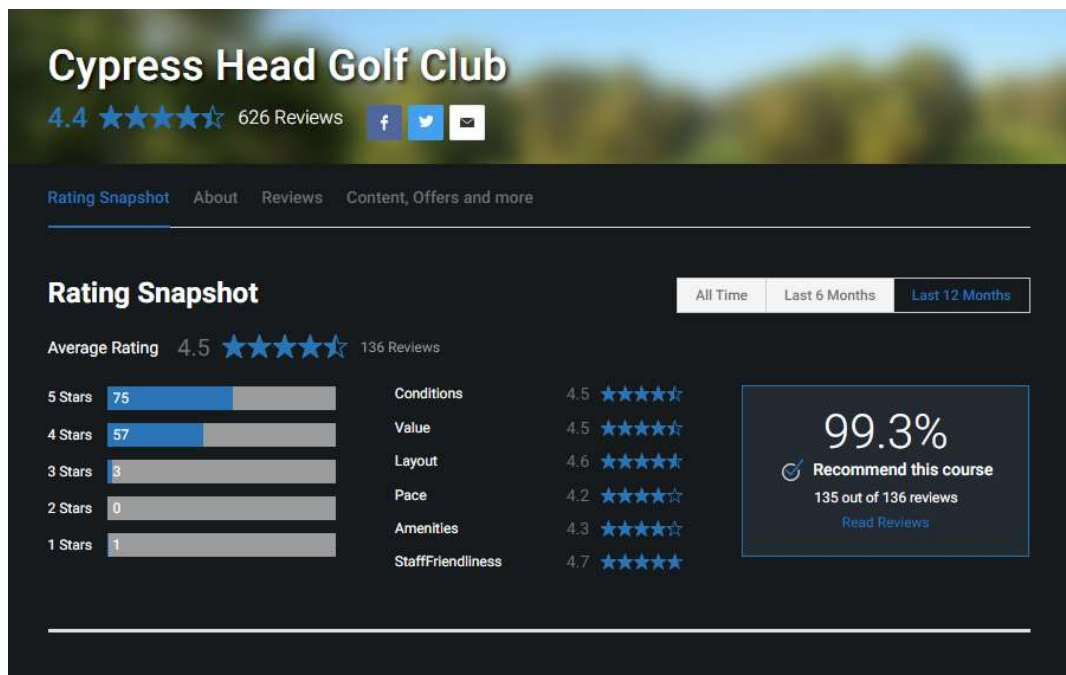
Marketing and Sales:

- We are continuing our involvement with Golf Pac, and Tee-Times USA along with other National wholesaler and Golf Now to maximize utilization of our tee sheet.
- Cypress Head continues to be active members of the Port Orange South Daytona Chamber of Commerce, Daytona Chamber of Commerce, SEV Chamber and Rotary International.
- POSD Chamber of Commerce is keeping us informed regarding the challenges of the business and local community.
- We continue to maintain our database of emails with approximately 11,500 unique e-mail addresses. The golf staff continues to update player profiles including residency, phone numbers and proper classifications of all players.
- Jeff and the team are finalizing their decision on the new POS/Website platform that Cypress Head will transition to in late Spring.
- Outside tournament bookings are very strong as we prepare for the 2023 season.

	▼					
	NPS	Overall Rating	Service Rating	Course Rating	Recommend Rating	# of Surveys
Goal Index	70.0 70.0					
Totals	93.4	9.5	9.7	9.2	9.7	198
Golf	93.4	9.5	9.7	9.2	9.7	198
Cypress Head Golf Club	93.4	9.5	9.7	9.2	9.7	198

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We continue to deliver True Service to our members and guests and insure they enjoy their experience here at Cypress Head. With our NPS at 93.4 and all vital categories well above 9.0, it is apparent that the team is delivering a “Best in Class” golf experience.

Corporate Support:

- Kemper Sports Center for Excellence – Ongoing resource. We have been participating in monthly webinars designed to share best practices used at Kemper properties throughout the country.

Insights:

- The team at Cypress Head continues to work well with the entire staff at the Parks & Recreation department to continue providing the “Best in Class” experience for all players.
- As an incoming GM at Cypress Head, I, along with my family, are very excited about our relocation and looking forward to having a positive impact in both the golf club and community. I have a very positive attitude towards customer service and will look to take what Bob Duquette has built over the years and make it even better. The team here has been extremely welcoming to me and my family and we are blessed and grateful for this.

Respectfully Submitted,

Jeff Dayton, PGA

General Manager
The Golf Club at Cypress Head

Matt Lindley

Vice President Operations
KemperSports Management

The Golf Club at Cypress Head

For the Two Months Ending November 30, 2022

	<u>11/30/22</u>	<u>09/30/22</u>	<u>11/30/21</u>
ASSETS			
CURRENT ASSETS:			
Cash			
Cash - Depository	267,765	242,333	164,309
Cash - Payroll	8,202	37,304	28,592
Cash - Manual Checks	850	850	850
Cash - Housebank & Other	500	500	500
Total Cash	<u>277,317</u>	<u>280,987</u>	<u>194,251</u>
Accounts Receivable			
A/R Member	430	93,810	5,422
Total Accounts Recievable	<u>430</u>	<u>93,810</u>	<u>5,422</u>
Other Current Assets			
Inventory - Merchandise	40,867	21,177	27,967
Prepaid Insurance	23,559	38,909	18,192
Prepaid Exp - Other	29,766	12,835	33,843
Total Other Current Assets	<u>94,191</u>	<u>72,922</u>	<u>80,002</u>
TOTAL CURRENT ASSETS	<u>371,939</u>	<u>447,718</u>	<u>279,674</u>
PROPERTY, PLANT AND EQUIPMENT:			
Buildings & Improvements	30,598	30,598	30,598
Machinery & Equipment	5,550	5,550	5,550
Property Plant and Equipment	36,148	36,148	36,148
Accumulated Depreciation	(31,306)	(31,115)	(30,159)
TOTAL PROPERTY, PLANT AND EQUIPMENT	<u>4,842</u>	<u>5,033</u>	<u>5,989</u>
TOTAL ASSETS	<u><u>376,781</u></u>	<u><u>452,752</u></u>	<u><u>285,663</u></u>

The Golf Club at Cypress Head

For the Two Months Ending November 30, 2022

	<u>11/30/22</u>	<u>09/30/22</u>	<u>11/30/21</u>
LIABILITIES AND STOCKHOLDERS' EQUITY			
CURRENT LIABILITIES:			
Accts Pay - Trade	53,614	53,494	58,388
Accts Pay - Other	35	(1,164)	(4,542)
Accrued Expenses	0	3,075	5,395
Accrued Payroll	40,342	22,112	25,750
Accrued Taxes	9,264	5,805	8,321
Accrued Interest	0	0	234
Deferred Revenue	<u>213,890</u>	<u>245,237</u>	<u>182,629</u>
TOTAL CURRENT LIABILITIES	<u>317,145</u>	<u>328,559</u>	<u>276,175</u>
 TOTAL LIABILITIES	 <u>317,145</u>	 <u>328,559</u>	 <u>276,175</u>
STOCKHOLDER'S EQUITY			
Retained Earnings	<u>59,636</u>	<u>124,193</u>	<u>9,488</u>
Net Retained Earnings	<u>59,636</u>	<u>124,193</u>	<u>9,488</u>
Stockholders Equity	<u>59,636</u>	<u>124,193</u>	<u>9,488</u>
TOTAL STOCKHOLDER'S EQUITY	<u>59,636</u>	<u>124,193</u>	<u>9,488</u>
 TOTAL LIABILITIES AND STOCKHOLDER'S EQUITY	 <u><u>376,781</u></u>	 <u><u>452,752</u></u>	 <u><u>285,663</u></u>

The Golf Club at Cypress Head
General Ledger

Ranges: From:
Date: 11/1/2022
Account: First

To:
11/30/2022
Last

Sorted By: Account
Include: Posting, Unit
Print Currency In: Functional (Z-US\$)

Inactive	Account	Description	Beginning Balance	Debit	Credit	Net Change	Ending Balance
	10020-5950-900	Cash - Course Depository NEW	\$241,714.03	\$166,919.04	\$140,867.60	\$26,051.44	\$267,765.47
	10050-5950-900	Cash - Course Payroll BMO	\$37,298.64	\$64,212.17	\$93,308.82	(\$29,096.65)	\$8,201.99
	10100-5950-900	Cash - Course Other	\$850.00	\$0.00	\$0.00	\$0.00	\$850.00
	10180-5950-900	Cash - Pro Shop Bank	\$500.00	\$0.00	\$0.00	\$0.00	\$500.00
	11160-5950-900	A/R Member	\$1,441.15	\$14,696.34	\$15,707.22	(\$1,010.88)	\$430.27
	12000-5950-900	Inventory - Merchandise	\$27,377.97	\$20,485.12	\$6,996.12	\$13,489.00	\$40,866.97
	13020-5950-900	Prepaid Insurance	\$31,233.82	\$0.00	\$7,675.12	(\$7,675.12)	\$23,558.70
	13040-5950-900	Prepaid Exp - Other	\$12,441.49	\$17,810.65	\$486.34	\$17,324.31	\$29,765.80
	20100-5950-900	Machinery & Equipment	\$5,550.40	\$0.00	\$0.00	\$0.00	\$5,550.40
	20160-5950-900	Buildings and Improvements	\$30,597.54	\$0.00	\$0.00	\$0.00	\$30,597.54
	22040-5950-900	Accum. Deprec - Mach & Equip	(\$4,740.06)	\$0.00	\$23.12	(\$23.12)	(\$4,763.18)
	22080-5950-900	Accum. Deprec - Buildings	(\$26,470.12)	\$0.00	\$72.41	(\$72.41)	(\$26,542.53)
	30000-5950-900	Accts Pay - Trade	(\$49,480.21)	\$118,421.07	\$122,555.22	(\$4,134.15)	(\$53,614.36)
	30040-5950-900	Accts Pay - Other	\$204.10	\$15,919.53	\$16,158.60	(\$239.07)	(\$34.97)
	31000-5950-900	Accrued Expenses	(\$500.00)	\$500.00	\$0.00	\$500.00	\$0.00
	31020-5950-900	Accrued Payroll	(\$34,439.31)	\$22,937.16	\$28,593.92	(\$5,656.76)	(\$40,096.07)
	31080-5950-900	Accrued Tips Payable	(\$21.00)	\$459.64	\$684.64	(\$225.00)	(\$246.00)
	31220-5950-900	Accrued Sales Tax	(\$2,903.75)	\$2,906.13	\$9,266.55	(\$6,360.42)	(\$9,264.17)
	31400-5950-900	Accrued City Surcharge	\$0.00	\$3,144.77	\$3,144.77	\$0.00	\$0.00
	32000-5950-900	Deferred Rev - Rainchecks	(\$6,369.58)	\$1,490.38	\$649.89	\$840.49	(\$5,529.09)
	32020-5950-900	Deferred Rev - Outing Deposits	(\$31,479.37)	\$1,560.27	\$7,177.24	(\$5,616.97)	(\$37,096.34)
	32040-5950-900	Deferred Rev - Legacy GF Passes	(\$29,400.30)	\$2,672.75	\$0.00	\$2,672.75	(\$26,727.55)
	32050-5950-900	Deferred Revenue - Cypress GF Passes	(\$27,956.82)	\$2,726.53	\$2,035.00	\$691.53	(\$27,265.29)
	32070-5950-900	Deferred Rev - Gift Cards	(\$32,775.81)	\$1,346.46	\$5,817.73	(\$4,471.27)	(\$37,247.08)
	32100-5950-900	Deferred Rev - Credit Books	(\$14,234.23)	\$884.81	\$800.62	\$84.19	(\$14,150.04)
	32120-5950-900	Deferred Rev - Trail Fee Pass	(\$70,146.56)	\$7,248.94	\$2,976.75	\$4,272.19	(\$65,874.37)
	49020-5950-900	Retained Earnings - Current	(\$124,193.13)	\$0.00	\$0.00	\$0.00	(\$124,193.13)
	50000-5950-100	Green Fees - Annual Pass	(\$5,214.28)	\$0.00	\$5,399.28	(\$5,399.28)	(\$10,613.56)
	5003A-5950-100	Green Fee - Group	(\$6,105.80)	\$0.00	\$15,710.32	(\$15,710.32)	(\$21,816.12)
	50040-5950-100	Green Fees - Member	(\$481.33)	\$74.77	\$0.00	\$74.77	(\$406.56)
	5006A-5950-100	Green Fee - Junior	(\$37.60)	\$0.00	\$71.44	(\$71.44)	(\$109.04)
	50070-5950-100	Green Fees - (surcharge)	(\$1,863.48)	\$3,146.65	\$6,291.42	(\$3,144.77)	(\$5,008.25)
	5007A-5950-100	Green Fee - League	(\$6,784.38)	\$21.74	\$9,386.74	(\$9,365.00)	(\$16,149.38)
	5010A-5950-100	Green Fee - Non-Resident (Standard)	(\$1,498.54)	\$0.00	\$5,529.11	(\$5,529.11)	(\$7,027.65)
	5012A-5950-100	Green Fee - Outing	(\$3,190.22)	\$0.00	\$3,978.81	(\$3,978.81)	(\$7,169.03)
	5014A-5950-100	Green Fee - Resident	(\$15,146.83)	\$0.00	\$26,417.63	(\$26,417.63)	(\$41,564.46)
	5015A-5950-100	Green Fee - Senior	(\$7,152.57)	\$0.00	\$16,643.99	(\$16,643.99)	(\$23,796.56)
	5018A-5950-100	Green Fee - Twilight	\$0.00	\$0.00	\$17.10	(\$17.10)	(\$17.10)
	5019A-5950-100	Green Fee - Wholesale	(\$360.84)	\$0.00	\$0.00	\$0.00	(\$360.84)
	50500-5950-200	Cart Fee 18	(\$21,662.34)	\$13.00	\$38,578.93	(\$38,565.93)	(\$60,228.27)
	50520-5950-200	Cart Fee - Annual Trail	(\$6,918.19)	\$0.00	\$7,248.94	(\$7,248.94)	(\$14,167.13)
	52150-5950-600	Lessons	(\$790.00)	\$150.00	\$2,148.00	(\$1,998.00)	(\$2,788.00)
	52280-5950-600	Rental Clubs	(\$60.00)	\$0.00	\$279.06	(\$279.06)	(\$339.06)
	52310-5950-600	Retail	(\$5,732.44)	\$0.00	\$9,609.82	(\$9,609.82)	(\$15,342.26)
	53050-5950-220	Range Pass Revenue	(\$2,957.24)	\$0.00	\$3,822.98	(\$3,822.98)	(\$6,780.22)
	56120-5950-100	City Surcharge R & R	(\$1,863.48)	\$0.00	\$3,144.77	(\$3,144.77)	(\$5,008.25)
	60000-5950-600	COGS - Merchandise - Accessories	\$3,551.22	\$6,654.04	\$0.00	\$6,654.04	\$10,205.26
	70000-5950-100	Gross Payroll - Salaried	\$10,213.09	\$14,567.41	\$3,641.86	\$10,925.55	\$21,138.64
	70000-5950-600	Gross Payroll - Salaried	\$0.00	\$1,384.68	\$0.00	\$1,384.68	\$1,384.68
	70000-5950-900	Gross Payroll - Salaried	\$11,218.95	\$16,321.11	\$4,029.67	\$12,291.44	\$23,510.39
	70000-5950-950	Gross Payroll - Salaried	\$3,414.83	\$4,591.17	\$1,101.56	\$3,489.61	\$6,904.44
	70010-5950-100	Gross Payroll - Hourly	\$24,431.98	\$30,018.59	\$6,535.52	\$23,483.07	\$47,915.05
	70010-5950-200	Gross Payroll - Hourly	\$7,375.71	\$13,258.98	\$3,685.92	\$9,573.06	\$16,948.77

TRIAL BALANCE SUMMARY FOR 2022

The Golf Club at Cypress Head

Inactive	Account	Description	Beginning Balance	Debit	Credit	Net Change	Ending Balance
	70010-5950-600	Gross Payroll - Hourly	\$5,826.40	\$9,533.28	\$2,472.65	\$7,060.63	\$12,887.03
	70010-5950-900	Gross Payroll - Hourly	\$0.00	\$51.52	\$0.00	\$51.52	\$51.52
	71000-5950-100	Payroll Tax - FICA	\$2,562.01	\$3,323.56	\$778.57	\$2,544.99	\$5,107.00
	71000-5950-200	Payroll Tax - FICA	\$564.22	\$1,044.04	\$281.97	\$762.07	\$1,326.29
	71000-5950-600	Payroll Tax - FICA	\$447.26	\$820.63	\$176.92	\$643.71	\$1,090.97
	71000-5950-900	Payroll Tax - FICA	\$721.22	\$1,116.63	\$308.27	\$808.36	\$1,529.58
	71000-5950-950	Payroll Tax - FICA	\$284.22	\$348.57	\$84.25	\$264.32	\$548.54
	71010-5950-100	Payroll Tax - UC	\$5.46	\$6.55	\$0.00	\$6.55	\$12.01
	71010-5950-200	Payroll Tax - UC	\$18.52	\$48.42	\$0.00	\$48.42	\$66.94
	71010-5950-600	Payroll Tax - UC	\$2.87	\$10.78	\$0.00	\$10.78	\$13.65
	71010-5950-900	Payroll Tax - UC	\$0.00	\$0.18	\$0.00	\$0.18	\$0.18
	71020-5950-100	Payroll Tax - WC	\$564.05	\$607.97	\$0.00	\$607.97	\$1,172.02
	71020-5950-200	Payroll Tax - WC	\$92.04	\$182.17	\$0.00	\$182.17	\$274.21
	71020-5950-600	Payroll Tax - WC	\$85.51	\$148.94	\$0.00	\$148.94	\$234.45
	71020-5950-900	Payroll Tax - WC	\$189.16	\$224.08	\$0.00	\$224.08	\$413.24
	71020-5950-950	Payroll Tax - WC	\$67.26	\$64.30	\$0.00	\$64.30	\$131.56
	71030-5950-100	Benefits	\$2,153.00	\$5,671.87	\$3,500.43	\$2,171.44	\$4,324.44
	71030-5950-600	Benefits	\$596.32	\$1,310.90	\$682.76	\$628.14	\$1,224.46
	71030-5950-900	Benefits	\$2,977.92	\$5,339.62	\$2,492.29	\$2,847.33	\$5,825.25
	71030-5950-950	Benefits	\$45.65	\$242.10	\$198.33	\$43.77	\$89.42
	80110-5950-200	Cart Supplies	\$82.19	\$149.06	\$0.00	\$149.06	\$231.25
	80120-5950-100	Chemicals	\$750.77	\$0.00	\$0.00	\$0.00	\$750.77
	80170-5950-100	Course Accessories	\$855.44	\$64.26	\$0.00	\$64.26	\$919.70
	80230-5950-100	Fertilizer	\$10,467.70	\$2,679.60	\$950.00	\$1,729.60	\$12,197.30
	80270-5950-100	Fuel	\$2,888.49	\$0.00	\$0.00	\$0.00	\$2,888.49
	80280-5950-100	Fungicides	\$0.00	\$991.92	\$0.00	\$991.92	\$991.92
	80320-5950-100	Herbicides	\$0.00	\$1,563.75	\$0.00	\$1,563.75	\$1,563.75
	80380-5950-900	Janitorial Supplies	\$160.00	\$987.30	\$0.00	\$987.30	\$1,147.30
	80420-5950-900	Laundry/Uniforms	\$410.93	\$510.02	\$0.00	\$510.02	\$920.95
	80520-5950-900	Office Supplies	\$831.66	\$704.99	\$92.99	\$612.00	\$1,443.66
	80610-5950-220	Range Balls	\$0.00	\$2,042.14	\$0.00	\$2,042.14	\$2,042.14
	80620-5950-220	Range Equipment	\$0.00	\$511.96	\$0.00	\$511.96	\$511.96
	80690-5950-100	Sand/Topdress	\$1,048.64	\$5,560.00	\$5,560.00	\$0.00	\$1,048.64
	80710-5950-100	Seeds/Trees	\$5,560.00	\$5,560.00	\$5,560.00	\$0.00	\$5,560.00
	80730-5950-100	Small Tools	\$263.97	\$0.00	\$0.00	\$0.00	\$263.97
	80780-5950-200	Supplies	\$0.00	\$521.16	\$0.00	\$521.16	\$521.16
	80780-5950-600	Supplies	\$179.65	\$1,524.96	\$0.00	\$1,524.96	\$1,704.61
	81010-5950-900	Alarm System	\$120.50	\$120.50	\$0.00	\$120.50	\$241.00
	81130-5950-900	Computer Service	\$159.84	\$159.84	\$0.00	\$159.84	\$319.68
	81140-5950-900	Contract Cleaning	\$650.00	\$433.40	\$0.00	\$433.40	\$1,083.40
	81200-5950-900	Guest Relations	\$0.00	\$1,830.00	\$0.00	\$1,830.00	\$1,830.00
	81250-5950-100	Irrigation	\$525.00	\$525.00	\$0.00	\$525.00	\$1,050.00
	81350-5950-100	Repair & Maint - Equipment	\$808.01	\$2,536.24	\$130.37	\$2,405.87	\$3,213.88
	81360-5950-900	Repair & Maint - Building	\$110.00	\$225.00	\$0.00	\$225.00	\$335.00
	82000-5950-200	Cart Lease	\$8,577.00	\$8,577.00	\$0.00	\$8,577.00	\$17,154.00
	82020-5950-100	Equipment Lease	\$7,140.00	\$7,140.00	\$0.00	\$7,140.00	\$14,280.00
	82060-5950-900	Off-Site Storage	\$206.00	\$206.00	\$0.00	\$206.00	\$412.00
	83000-5950-100	Utilities - Electric	\$283.21	\$285.02	\$0.00	\$285.02	\$568.23
	83000-5950-200	Utilities - Electric	\$478.06	\$604.51	\$0.00	\$604.51	\$1,082.57
	83020-5950-100	Utilities - Other	\$1,255.88	\$1,682.40	\$0.00	\$1,682.40	\$2,938.28
	83020-5950-900	Utilities - Other	\$1,987.19	\$1,991.84	\$300.00	\$1,691.84	\$3,679.03
	83030-5950-900	Utilities - Telephone/Fax	\$455.06	\$195.67	\$200.00	(\$4.33)	\$450.73
	83050-5950-100	Utilities - Water	\$204.36	\$243.77	\$0.00	\$243.77	\$448.13
	84040-5950-950	Adv/Promo - Mktg/Bus Dev	\$813.11	\$1,142.17	\$100.00	\$1,042.17	\$1,855.28
	85020-5950-900	Bank Charges	\$338.36	\$308.07	\$0.00	\$308.07	\$646.43
	85050-5950-900	Cash Short/(Over)	(\$36.50)	\$92.66	\$98.88	(\$6.22)	(\$42.72)
	85060-5950-900	Cell Phone	\$240.00	\$240.00	\$0.00	\$240.00	\$480.00
	85070-5950-900	City Surcharge R & R	\$1,863.48	\$3,144.77	\$0.00	\$3,144.77	\$5,008.25
	85120-5950-900	Credit Card Discounts	\$3,970.78	\$3,062.44	\$0.00	\$3,062.44	\$7,033.22
	85150-5950-900	Dues & Subscriptions	\$930.00	\$65.00	\$0.00	\$65.00	\$995.00

TRIAL BALANCE SUMMARY FOR 2022
The Golf Club at Cypress Head

Inactive	Account	Description	Beginning Balance	Debit	Credit	Net Change	Ending Balance
	85190-5950-900	Employee Relations	\$121.34	\$212.48	\$212.48	\$0.00	\$121.34
	85200-5950-100	Employee Testing	\$0.00	\$34.01	\$0.00	\$34.01	\$34.01
	85280-5950-900	Insurance Expense	\$7,675.12	\$7,675.12	\$0.00	\$7,675.12	\$15,350.24
	85320-5950-900	Member Relations	\$0.00	\$6.00	\$0.00	\$6.00	\$6.00
	85340-5950-900	Miscellaneous	\$0.00	\$8.23	\$0.00	\$8.23	\$8.23
	85390-5950-900	O/S - Accounting	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$2,000.00
	85480-5950-900	Payroll Processing Fee	\$377.69	\$434.29	\$54.00	\$380.29	\$757.98
	85490-5950-900	Postage/Shipping	\$219.49	\$194.26	\$15.00	\$179.26	\$398.75
	85610-5950-900	Tax/Licenses/Fees	(\$30.00)	\$0.00	\$30.00	(\$30.00)	(\$60.00)
	85720-5950-900	Travel - Other	\$7,000.00	\$668.36	\$0.00	\$668.36	\$7,668.36
	90000-5950-900	Management Fee	\$6,273.85	\$6,400.00	\$0.00	\$6,400.00	\$12,673.85
	98020-5950-900	Deprec - Mach & Equip	\$23.12	\$23.12	\$0.00	\$23.12	\$46.24
	98040-5950-900	Deprec - Buildings	\$72.41	\$72.41	\$0.00	\$72.41	\$144.82
	R002A-5950-100	Rounds - Annual	8,630.00	312.00	0.00	312.00	8,942.00
	R003A-5950-100	Rounds - Group	10,329.00	698.00	0.00	698.00	11,027.00
	R005A-5950-100	Rounds - Green Fee - Hotel	42.00	0.00	0.00	0.00	42.00
	R006A-5950-100	Rounds - Green Fee - Junior	1,296.00	20.00	0.00	20.00	1,316.00
	R007A-5950-100	Rounds - Green Fee - League	12,063.00	411.00	0.00	411.00	12,474.00
	R010A-5950-100	Rounds - Green Fee - Non-Resident (Standard)	3,701.00	148.00	0.00	148.00	3,849.00
	R011A-5950-100	Rounds - Green Fee - Non-Revenue	448.00	34.00	0.00	34.00	482.00
	R012A-5950-100	Rounds - Green Fee - Outing	6,016.00	168.00	0.00	168.00	6,184.00
	R014A-5950-100	Rounds - Resident	37,378.00	1,344.00	0.00	1,344.00	38,722.00
	R015A-5950-100	Rounds - Green Fee - Senior	13,979.00	528.00	0.00	528.00	14,507.00
	R016A-5950-100	Rounds - Green Fee - Staff	3,185.00	116.00	0.00	116.00	3,301.00
	R017A-5950-100	Rounds - Green Fee - Trade	2,315.00	88.00	0.00	88.00	2,403.00
	R018A-5950-100	Rounds - Green Fee - Twilight	0.00	9.00	0.00	9.00	9.00
	R019A-5950-100	Rounds - Green Fee - Wholesale	220.00	0.00	0.00	0.00	220.00
	RCMWD-5950-100	Rounds - Complimentary - Weekday	15,846.00	0.00	0.00	0.00	15,846.00
	REMWD-5950-100	Rounds - Employee - Weekday	21,589.00	0.00	0.00	0.00	21,589.00
	RMBWD-5950-100	Rounds - Member - Weekday	80,170.00	0.00	0.00	0.00	80,170.00
	RPKWD-5950-100	Rounds - Peak - Weekday	450,023.00	0.00	0.00	0.00	450,023.00
	RPKWE-5950-100	Rounds - Peak - Weekend	5,071.00	0.00	0.00	0.00	5,071.00

**The Golf Club at Cypress Head
Course Cash Flow Report
November 30, 2022**

	<u>November</u>	<u>YTD</u>
EBITDA	\$7,839.61	(\$51,692.12)
Management Fee Expense	(6,400.00)	(12,673.85)
Depreciation & Amortization	(95.53)	(191.06)
Net Income	1,344.08	(64,557.03)
Working Capital Changes		
Inventory	(13,489.00)	(19,689.59)
Receivables	1,010.88	93,379.37
Payables	4,134.15	120.62
Due to from the City	239.07	1,199.09
Prepays	(9,649.19)	(1,580.27)
Accrued Liabilities	11,742.18	18,613.82
Other Liabilities	1,527.09	(31,346.85)
Depreciation & Amortization	95.53	191.06
Operating Cash Flow	(3,045.21)	(3,669.78)
Investing Cash Flows	<u> </u>	<u> </u>
Financing Cash Flow	<u> </u>	<u> </u>
Net Cash Flows	<u>(3,045.21)</u>	<u>(3,669.78)</u>
Beginning Cash	280,362.67	280,987.24
Net Cash Flows	<u>(3,045.21)</u>	<u>(3,669.78)</u>
Ending Cash	<u>277,317.46</u>	<u>277,317.46</u>

The Golf Club at Cypress Head
For the Month Ending November 30, 2022

	11/30/21	12/31/21	01/31/22	02/28/22	03/31/22	04/30/22	05/31/22	06/30/22	07/31/22	08/31/22	09/30/22	10/31/22	11/30/22
REVENUES													
Green Fees & Cart Fees	118,203.96	130,620.88	146,646.41	174,387.59	182,972.82	173,758.14	141,552.86	95,476.77	116,104.71	84,541.09	82,527.75	76,416.40	132,017.55
Merchandise	7,592.30	7,808.70	13,122.82	6,291.91	18,267.01	13,066.12	15,134.23	11,876.71	10,206.64	8,434.76	6,106.00	5,732.44	9,609.82
Other Pro Shop	1,700.00	650.00	2,257.00	4,508.00	1,799.00	1,125.00	1,976.00	3,805.00	2,048.00	1,165.00	1,067.00	850.00	2,277.06
Range	4,561.82	5,204.78	4,490.38	5,083.52	5,383.38	4,817.50	4,512.00	3,733.68	4,056.10	3,180.02	2,262.58	2,957.24	3,822.98
Other Operating Revenues	3,208.69	3,422.54	3,615.24	4,048.58	4,269.48	4,244.57	3,530.17	2,739.74	3,222.79	2,489.12	2,164.82	1,863.48	3,144.77
TOTAL REVENUE	135,266.77	147,706.90	170,131.85	194,319.60	212,691.69	197,011.33	166,705.26	117,631.90	135,638.24	99,809.99	94,128.15	87,819.56	150,872.18
COST OF SALES													
Merchandise	4,444.50	4,694.96	9,569.52	4,398.65	13,796.15	5,096.01	12,425.01	5,846.96	5,006.48	5,262.08	3,673.81	3,551.22	6,654.04
TOTAL COGS	4,444.50	4,694.96	9,569.52	4,398.65	13,796.15	5,096.01	12,425.01	5,846.96	5,006.48	5,262.08	3,673.81	3,551.22	6,654.04
COGS - Merchandise %	58.5%	60.1%	72.9%	69.9%	75.5%	39.0%	82.1%	49.2%	49.1%	62.4%	60.2%	61.9%	69.2%
PAYROLL													
Course and Grounds	33,501.70	35,373.15	38,953.74	35,263.11	41,963.35	35,481.09	34,468.36	36,189.69	33,649.77	36,966.52	35,185.19	39,929.59	39,739.57
Carts, Range, Starters, Etc.	8,623.62	8,935.55	8,533.03	8,367.46	9,867.86	10,252.13	9,623.80	9,553.91	10,121.42	7,904.02	7,117.30	8,050.49	10,565.72
Pro Shop	6,846.52	6,739.89	7,310.81	6,802.65	8,052.21	6,387.14	6,971.60	8,661.40	8,204.05	6,904.70	6,814.31	6,958.36	9,876.88
General and Administrative	13,177.65	13,102.54	13,949.10	10,642.11	13,486.78	12,643.91	12,937.87	12,853.40	14,007.58	13,195.59	15,210.90	15,107.25	16,222.91
Marketing	4,525.94	4,504.63	4,233.20	5,532.05	5,541.28	4,090.93	6,733.56	4,678.56	4,808.85	3,970.08	5,954.61	3,811.96	3,862.00
TOTAL PAYROLL	66,675.43	68,655.76	72,979.88	66,607.38	78,911.48	68,855.20	70,735.19	71,936.96	70,791.67	68,940.91	70,282.31	73,857.65	80,267.08
OPERATING EXPENSES													
Course and Grounds	19,071.07	19,683.85	15,865.35	20,881.87	22,943.53	27,514.83	29,643.87	26,914.50	28,096.16	26,704.17	40,992.52	32,051.47	16,665.60
Carts, Range, Starters, Etc.	5,685.18	5,186.50	5,657.69	6,273.63	5,791.82	7,305.48	4,919.14	5,245.82	4,228.77	4,372.60	4,791.98	9,137.25	12,403.83
Pro Shop	0.00	225.00	39.23	4,304.00	14.26	0.00	19.66	5,504.04	257.32	353.48	190.44	179.65	1,524.96
General and Administrative	22,535.76	25,091.66	21,972.41	23,561.67	22,153.72	24,792.88	22,349.22	22,288.52	20,040.95	19,379.21	24,140.22	27,760.94	24,472.89
Marketing	3,030.39	1,491.40	1,168.29	872.61	1,338.02	1,802.05	2,710.57	6,158.67	2,002.95	688.48	1,344.02	813.11	1,042.17
TOTAL OPERATING EXPENSE	50,332.40	51,678.41	44,702.97	55,900.08	52,241.35	61,415.24	59,642.46	66,111.55	54,624.15	51,497.94	71,459.18	69,942.42	56,111.45
TOTAL EXPENSES	121,452.33	125,029.13	127,252.37	126,906.11	144,948.98	135,366.45	142,802.66	143,895.47	130,422.30	125,700.93	145,415.30	147,351.29	143,032.57
EBITDA	13,814.44	22,677.77	42,879.48	67,413.49	67,742.71	61,644.88	23,902.80	(26,263.57)	5,215.94	(25,890.94)	(51,287.15)	(59,531.73)	7,839.61

The Golf Club at Cypress Head

For the Month Ending November 30, 2022

	11/30/21	12/31/21	01/31/22	02/28/22	03/31/22	04/30/22	05/31/22	06/30/22	07/31/22	08/31/22	09/30/22	10/31/22	11/30/22
EBITDA	13,814.44	22,677.77	42,879.48	67,413.49	67,742.71	61,644.88	23,902.60	(26,263.57)	5,215.94	(25,890.94)	(51,287.15)	(59,531.73)	7,839.61
MANAGEMENT FEES	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,433.61)	(6,273.85)	(6,400.00)
Interest Expense - Debt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest Expense - Leases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest Income	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL FINANCING ACTIVITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER INCOME (EXPENSE)													
Non-Operating Revenue	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transfers from County	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Depreciation & Amortization	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)
Incentive Compensation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Partnership Income/(Loss)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gain/(Loss) On Disposal Of Assets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Expenses / Capital Reserve	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Taxes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL OTHER INCOME (EXPE	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)
NET INCOME	7,411.45	16,274.78	36,476.49	61,010.50	61,339.72	55,241.89	17,499.61	(32,666.56)	(1,187.05)	(32,293.93)	(57,816.29)	(65,901.11)	1,344.08
Paid Rounds	3,398.00	3,575.00	3,860.00	4,373.00	4,660.00	4,574.00	3,727.00	3,034.00	3,497.00	2,583.00	2,153.00	2,086.00	3,326.00
Annual Pass Rounds	334.00	391.00	381.00	443.00	414.00	430.00	400.00	313.00	307.00	307.00	311.00	206.00	312.00
Other Rounds	261.00	268.00	238.00	243.00	246.00	281.00	301.00	241.00	269.00	233.00	175.00	169.00	238.00
Total Rounds	3,993.00	4,234.00	4,479.00	5,059.00	5,320.00	5,285.00	4,428.00	3,588.00	4,073.00	3,123.00	2,639.00	2,461.00	3,876.00
Revenue/Paid Rounds	39.81	41.32	44.08	44.44	45.64	43.07	44.73	38.77	38.79	38.64	43.72	42.10	45.36
Revenue/Total Rounds	33.86	34.89	37.96	38.41	39.98	37.26	37.65	32.78	33.30	31.96	35.67	35.68	38.92
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

The Golf Club at Cypress Head

For the Two Months Ending November 30, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
REVENUES												
132,018	135,575	97%	118,204	112%	Green Fees & Cart Fees	208,434	248,917	84%	229,226	91%	1,525,011	1,537,023
9,610	7,600	126%	7,592	127%	Merchandise	15,342	15,400	100%	15,376	100%	110,100	125,657
2,277	1,720	132%	1,700	134%	Other Pro Shop	3,127	3,440	91%	3,518	89%	20,520	23,527
3,823	4,600	83%	4,562	84%	Range	6,780	8,900	76%	8,873	76%	52,400	49,504
3,145	3,200	98%	3,209	98%	Other Operating Revenues	5,008	6,300	79%	6,339	79%	38,100	38,755
150,872	152,695	99%	135,267	112%	TOTAL REVENUE	238,692	282,957	84%	263,332	91%	1,746,131	1,774,467
COST OF SALES												
6,654	4,864	137%	4,445	150%	Merchandise	10,205	9,856	104%	9,172	111%	70,464	79,975
6,654	4,864	137%	4,445	150%	TOTAL COGS	10,205	9,856	104%	9,172	111%	70,464	79,975
69.2%	64.0%	108.2%	58.5%	118.3%	COGS - Merchandise %	66.5%	64.0%	103.9%	59.6%	111.5%	64.0%	751.6%
PAYROLL												
39,740	37,084	107%	33,502	119%	Course and Grounds	79,669	74,955	106%	67,093	119%	452,813	443,163
10,566	8,817	120%	8,624	123%	Carts, Range, Starters, Etc.	18,616	17,981	104%	17,786	105%	107,804	108,893
9,877	7,780	127%	6,847	144%	Pro Shop	16,835	15,817	106%	14,558	116%	96,444	89,684
16,223	14,414	113%	13,178	123%	General and Administrative	31,330	28,567	110%	26,638	118%	176,060	163,360
3,862	4,158	93%	4,526	85%	Marketing	7,674	8,316	92%	8,744	88%	51,481	57,722
80,267	72,254	111%	66,675	120%	TOTAL PAYROLL	154,125	145,637	106%	134,818	114%	884,602	862,821
OPERATING EXPENSES												
16,666	23,171	72%	19,071	87%	Course and Grounds	48,717	57,742	84%	47,731	102%	342,652	307,958
12,406	8,050	154%	5,695	218%	Carts, Range, Starters, Etc.	21,543	14,300	151%	11,067	195%	82,450	75,321
1,525	150	1017%	0	0%	Pro Shop	1,705	300	568%	166	1030%	7,575	12,612
24,473	23,115	106%	22,536	109%	General and Administrative	52,234	44,531	117%	42,949	122%	250,742	278,004
1,042	3,000	35%	3,030	34%	Marketing	1,855	4,300	43%	4,309	43%	23,400	21,432
56,111	57,486	98%	50,332	111%	TOTAL OPERATING EXPENSES	126,054	121,173	104%	106,222	119%	706,819	695,327
143,033	134,604	106%	121,452	118%	TOTAL EXPENSES	290,384	276,666	105%	250,212	116%	1,661,885	1,638,124
7,840	18,091	43%	13,814	57%	EBITDA	(51,692)	6,291	-822%	13,120	-394%	84,246	136,343

The Golf Club at Cypress Head

For the Two Months Ending November 30, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
7,840	18,091	43%	13,814	57%	EBITDA	(51,692)	6,291	-822%	13,120	-394%	84,246	136,343
(6,400)	(6,434)	99%	(6,307)	101%	MANAGEMENT FEES	(12,674)	(12,868)	98%	(12,615)	100%	(77,208)	(75,875)
(96)	(96)	100%	(96)	100%	OTHER INCOME (EXPENSE)	(191)	(191)	100%	(191)	100%	(1,146)	(1,146)
(96)	(96)	100%	(96)	100%	Depreciation & Amortization	(191)	(191)	100%	(191)	100%	(1,146)	(1,146)
1,344	11,562	12%	7,411	18%	NET INCOME	(64,557)	(6,768)	954%	314	-20562%	5,892	59,322
3,326	3,106	107%	3,398	98%	Paid Rounds	5,412	5,692	95%	6,693	81%	37,780	41,448
312	305	102%	334	93%	Annual Pass Rounds	518	666	78%	709	73%	4,748	4,215
238	220	108%	261	91%	Other Rounds	407	451	90%	541	75%	2,636	2,902
3,876	3,631	107%	3,993	97%	Total Rounds	6,337	6,809	93%	7,943	80%	45,164	48,565
45	49	92%	40	114%	Revenue/Paid Rounds	44	50	89%	39	112%	46	511
39	42	93%	34	115%	Revenue/Total Rounds	38	42	91%	33	114%	39	435

The Golf Club at Cypress Head
Course Cash Flow Report
For the Year Ended November 30, 2022

	OCT Actual	NOV Actual	DEC Actual	JAN Actual	FEB Actual	MAR Actual	APR Actual	MAY Actual	JUN Actual	JUL Actual	AUG Actual	SEP Actual
EBITDA	(59,532)	7,840	0	0	0	0	0	0	0	0	0	0
Management Fee Expense	(6,274)	(6,400)	0	0	0	0	0	0	0	0	0	0
Depreciation & Amortization	(96)	(96)	0	0	0	0	0	0	0	0	0	0
Net Income	(65,901)	1,344	0	0	0	0	0	0	0	0	0	0
Working Capital Changes												
Inventory	(6,201)	(13,489)	0	0	0	0	0	0	0	0	0	0
Receivables	92,368	1,011	0	0	0	0	0	0	0	0	0	0
Prepaid Expenses	8,069	(9,649)	0	0	0	0	0	0	0	0	0	0
Payables	(4,014)	4,134	0	0	0	0	0	0	0	0	0	0
Due to from the City	960	239	0	0	0	0	0	0	0	0	0	0
Accrued Expenses	6,872	11,742	0	0	0	0	0	0	0	0	0	0
Deferred Revenues	(32,874)	1,527	0	0	0	0	0	0	0	0	0	0
Depreciation & Amortization	96	96	0	0	0	0	0	0	0	0	0	0
Operating Cash Flow	(625)	(3,045)	0	0	0	0	0	0	0	0	0	0
Investing Activities												
Financing Activities												
Net Cash Flows	(625)	(3,045)	0	0	0	0	0	0	0	0	0	0
Beginning Cash	280,987	280,363	277,317	276,536	276,536	276,536	276,536	276,536	276,536	276,536	276,536	276,536
Net Cash Flows	(625)	(3,045)	0	0	0	0	0	0	0	0	0	0
Ending Cash	280,363	277,317	277,317	276,536	276,536	276,536	276,536	276,536	276,536	276,536	276,536	276,536

The Golf Club at Cypress Head
Summary of All Units
For the Two Months Ending November 30, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
REVENUES												
86,203	92,365	93%	71,565	120%	Green Fees	134,039	167,027	80%	139,393	96%	990,571	973,172
45,815	43,210	106%	46,639	98%	Cart Fee	74,395	81,890	91%	89,833	83%	534,440	563,851
0	20	0%	0	0%	Handicap Fee	0	40	0%	20	0%	4,130	5,005
1,998	1,400	143%	1,400	143%	Lessons	2,788	2,800	100%	2,818	99%	13,590	15,743
279	300	93%	300	93%	Rental Clubs	339	600	57%	680	50%	2,800	2,779
9,610	7,600	126%	7,592	127%	Retail	15,342	15,400	100%	15,376	100%	110,100	125,657
3,823	4,600	83%	4,562	84%	Range	6,780	8,900	76%	8,873	76%	52,400	49,504
3,145	3,200	98%	3,209	98%	City Surcharge R & R	5,008	6,300	79%	6,339	79%	38,100	38,755
150,872	152,695	99%	135,267	112%	Total Revenues	238,692	282,957	84%	263,332	91%	1,746,131	1,774,467
COST OF GOODS SOLD												
6,654	4,864	137%	4,445	150%	COGS - Merchandise	10,205	9,856	104%	9,172	111%	70,464	79,975
6,654	4,864	137%	4,445	150%	Total COGS	10,205	9,856	104%	9,172	111%	70,464	79,975
144,218	147,831	98%	130,822	110%	GROSS MARGIN	228,486	273,101	84%	254,160	90%	1,675,667	1,694,492
69.24%	64.00%	108.19%	58.54%	118.28%	COGS - Merchandise %	66.52%	64.00%	103.93%	59.65%	111.51%	64.00%	751.61%
PAYROLL												
28,091	25,573	110%	23,341	120%	Gross Payroll - Salaried	52,938	50,910	104%	46,864	113%	309,850	305,648
40,168	35,322	114%	32,362	124%	Gross Payroll - Hourly	77,802	71,820	108%	65,697	118%	430,230	426,265
68,260	60,895	112%	55,703	123%	S/T Wages	130,741	122,731	107%	112,560	116%	740,080	731,912
5,023	4,658	108%	4,111	122%	Payroll Tax - FICA	9,602	9,389	102%	8,337	115%	56,616	53,960
66	277	24%	125	53%	Payroll Tax - UC	93	654	14%	253	37%	9,197	2,332
1,227	1,198	102%	1,033	119%	Payroll Tax - WC	2,225	2,415	92%	2,064	108%	14,988	14,101
5,691	5,225	109%	5,704	100%	Benefits	11,464	10,449	110%	11,604	99%	63,721	60,516
12,008	11,359	106%	10,972	109%	S/T Adders	23,384	22,907	102%	22,258	105%	144,522	130,909
80,267	72,254	111%	66,675	120%	TOTAL PAYROLL	154,125	145,637	106%	134,818	114%	884,602	862,821
OPERATING EXPENSES												
149	100	149%	90	166%	Cart Supplies	231	200	116%	165	140%	1,200	2,238
0	600	0%	424	0%	Chemicals	751	1,200	63%	922	81%	7,200	7,855
64	1,100	6%	1,221	5%	Course Accessories	920	1,100	84%	1,221	75%	4,250	3,683
1,730	1,500	115%	1,415	122%	Fertilizer	12,197	12,500	98%	8,007	152%	58,500	63,501
0	0	0%	0	0%	Flowers/Decor	0	0	0%	0	0%	900	515
0	1,000	0%	973	0%	Fuel	2,888	4,100	70%	4,123	70%	19,900	20,446
992	1,400	71%	1,357	73%	Fungicides	992	1,700	58%	1,357	73%	6,400	4,930
1,564	1,500	104%	1,470	106%	Herbicides	1,564	2,900	54%	2,796	56%	33,700	13,387
0	0	0%	0	0%	Insecticides	0	500	0%	400	0%	13,100	11,744
987	600	165%	636	155%	Janitorial Supplies	1,147	2,200	52%	2,217	52%	8,000	6,356
510	1,100	46%	1,100	46%	Laundry/Uniforms	921	1,200	77%	1,260	73%	2,200	1,180
612	1,050	58%	1,047	58%	Office Supplies	1,444	1,300	111%	1,176	123%	4,200	4,946
2,042	1,800	113%	1,760	116%	Range Balls	2,042	1,800	113%	1,760	116%	3,600	3,802
512	0	0%	0	0%	Range Equipment	512	0	0%	0	0%	1,050	1,599
0	0	0%	0	0%	Range Expenses	0	0	0%	0	0%	2,100	1,629
0	1,800	0%	800	0%	Sand/Topdress	1,049	1,800	58%	800	131%	15,200	10,519
0	1,500	0%	0	0%	Seeds/Trees	5,560	6,100	91%	4,320	129%	15,200	10,155
0	0	0%	0	0%	Small Tools	264	300	88%	263	101%	3,200	1,846
2,046	0	0%	0	0%	Supplies	2,226	0	0%	0	0%	200	6,088
0	50	0%	0	0%	Tournament Expense	0	100	0%	59	0%	600	184
121	250	48%	119	102%	Alarm System	241	500	48%	237	102%	3,000	2,072
0	50	0%	14	0%	Cart Repairs	0	100	0%	141	0%	1,200	836
160	160	100%	160	100%	Computer Service	320	320	100%	320	100%	1,920	1,918
433	650	67%	812	53%	Contract Cleaning	1,083	1,300	83%	812	133%	7,800	7,769
1,830	0	0%	0	0%	Guest Relations	1,830	0	0%	0	0%	0	1,830
0	0	0%	0	0%	Handicap Expense	0	0	0%	0	0%	5,175	5,297
525	1,100	48%	525	100%	Irrigation	1,050	2,200	48%	1,578	67%	13,200	10,689
0	50	0%	0	0%	Lesson Expense	0	100	0%	0	0%	1,000	350
0	0	0%	0	0%	Repair & Maint - Paths	0	0	0%	0	0%	3,000	0
2,406	1,600	150%	598	402%	Repair & Maint - Equipment	3,214	3,200	100%	1,918	168%	19,800	31,146
225	150	150%	178	127%	Repair & Maint - Building	338	300	112%	413	81%	11,720	11,720
8,577	5,200	165%	2,854	301%	Cart Lease	17,154	10,400	165%	7,069	243%	62,400	54,113
7,140	7,671	93%	7,851	91%	Equipment Lease	14,280	15,342	93%	15,350	93%	92,052	86,353
206	206	100%	176	117%	Off-Site Storage	412	412	100%	352	117%	2,472	2,097
890	1,150	77%	1,193	75%	Utilities - Electric	1,651	2,300	72%	2,395	69%	13,800	13,890
3,374	3,800	89%	3,784	89%	Utilities - Other	6,617	7,600	87%	7,576	87%	45,600	45,302
(4)	200	-2%	190	-2%	Utilities - Telephone/Fax	451	400	113%	381	118%	2,400	2,283
244	300	81%	291	84%	Utilities - Water	448	600	75%	543	83%	2,600	2,594
1,042	3,000	35%	3,030	34%	Advertising & Promotion	1,855	4,300	43%	4,309	43%	23,400	21,432
308	400	77%	336	92%	Bank Charges	646	800	81%	727	89%	4,800	4,067
(6)	0	0%	(30)	21%	Cash Short/(Over)	(43)	0	0%	12	-344%	0	(693)
240	240	100%	200	120%	Cell Phone	480	480	100%	400	120%	2,880	2,480
3,145	3,209	98%	3,209	98%	City Surcharge R & R	5,008	6,339	79%	6,339	79%	38,940	38,755
3,062	5,500	56%	5,534	55%	Credit Card Discounts	7,033	7,800	90%	7,812	90%	36,500	41,796

The Golf Club at Cypress Head
Summary of All Units
For the Two Months Ending November 30, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
0	0	0%	0	0%	Donations	0	0	0%	0	0%	0	573
65	0	0%	0	0%	Dues & Subscriptions	995	180	553%	180	553%	1,880	2,414
0	0	0%	0	0%	Education & Training	0	0	0%	0	0%	550	400
0	100	0%	0	0%	Employee Relations	121	200	61%	50	242%	2,150	472
34	0	0%	0	0%	Employee Testing	34	0	0%	0	0%	0	92
7,675	6,700	115%	6,130	125%	Insurance Expense	15,350	13,400	115%	12,259	125%	80,400	81,386
6	50	12%	0	0%	Member Relations	6	100	6%	0	0%	600	2,497
8	0	0%	0	0%	Miscellaneous	8	0	0%	0	0%	0	2,089
2,000	0	0%	0	0%	O/S - Accounting	2,000	2,200	91%	2,100	95%	11,200	16,130
0	0	0%	0	0%	O/S - Other	0	0	0%	0	0%	6,000	5,800
380	350	109%	402	94%	Payroll Processing Fee	758	700	108%	723	105%	4,350	5,118
179	100	179%	107	167%	Postage/Shipping	399	200	199%	233	171%	1,750	2,887
(30)	0	0%	(30)	100%	Tax/Licenses/Fees	(60)	0	0%	(60)	100%	150	(120)
0	100	0%	0	0%	Travel - Meals	0	200	0%	232	0%	2,100	863
668	100	668%	408	164%	Travel - Other	7,668	200	3834%	972	789%	1,200	9,967
0	0	0%	0	0%	Employee Meals	0	0	0%	0	0%	0	20
56,111	57,486	98%	50,332	111%	TOTAL OPERATING EXPENSES	126,054	121,173	104%	106,222	119%	706,819	695,327
7,840	18,091	43%	13,814	57%	EBITDA	(51,692)	6,291	-822%	13,120	-394%	84,246	136,343
6,400	6,434	99%	6,307	101%	Management Fee	12,674	12,868	98%	12,615	100%	77,208	75,875
6,400	6,434	99%	6,307	101%	Management Fees	12,674	12,868	98%	12,615	100%	77,208	75,875
23	23	100%	23	100%	Deprec - Mach & Equip	46	46	100%	46	100%	277	277
72	72	100%	72	100%	Deprec - Buildings	145	145	100%	145	100%	869	869
96	96	100%	96	100%	S/T DEPR. & AMORT	191	191	100%	191	100%	1,146	1,146
1,344	11,562	12%	7,411	18%	NET INCOME	(64,557)	(6,768)	954%	314	-20562%	5,892	59,322

The Golf Club at Cypress Head
Course & Grounds
For the Two Months Ending November 30, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
REVENUES												
86,203	92,365	93%	71,565	120%	Green Fees	134,039	167,027	80%	139,393	96%	990,571	973,172
3,145	3,200	98%	3,209	98%	City Surcharge R & R	5,008	6,300	79%	6,339	79%	38,100	38,755
89,347	95,565	93%	74,773	119%	Total Revenues	139,047	173,327	80%	145,732	95%	1,028,671	1,011,927
89,347	95,565	93%	74,773	119%	GROSS MARGIN	139,047	173,327	80%	145,732	95%	1,028,671	1,011,927
PAYROLL												
10,926	11,047	99%	9,405	116%	Gross Payroll - Salaried	21,139	22,094	96%	19,124	111%	132,564	124,667
23,483	20,947	112%	18,887	124%	Gross Payroll - Hourly	47,915	42,593	112%	37,492	128%	254,858	254,504
34,409	31,994	108%	28,292	122%	S/T Wages	69,054	64,687	107%	56,615	122%	387,422	379,171
2,545	2,448	104%	2,081	122%	Payroll Tax - FICA	5,107	4,949	103%	4,165	123%	29,638	27,828
7	0	0%	26	25%	Payroll Tax - UC	12	21	57%	53	22%	3,376	1,071
608	629	97%	520	117%	Payroll Tax - WC	1,172	1,273	92%	1,040	113%	7,845	7,288
2,171	2,013	108%	2,582	84%	Benefits	4,324	4,026	107%	5,219	83%	24,532	27,805
5,331	5,090	105%	5,210	102%	S/T Adders	10,615	10,268	103%	10,477	101%	65,391	63,992
39,740	37,084	107%	33,502	119%	TOTAL PAYROLL	79,669	74,955	106%	67,093	119%	452,813	443,163
OPERATING EXPENSES												
0	600	0%	424	0%	Chemicals	751	1,200	63%	922	81%	7,200	7,855
64	1,100	6%	1,221	5%	Course Accessories	920	1,100	84%	1,221	75%	4,250	3,683
1,730	1,500	115%	1,415	122%	Fertilizer	12,197	12,500	98%	8,007	152%	58,500	63,501
0	0	0%	0	0%	Flowers/Decor	0	0	0%	0	0%	900	515
0	1,000	0%	973	0%	Fuel	2,888	4,100	70%	4,123	70%	19,900	20,446
992	1,400	71%	1,357	73%	Fungicides	992	1,700	58%	1,357	73%	6,400	4,930
1,564	1,500	104%	1,470	106%	Herbicides	1,564	2,900	54%	2,796	56%	33,700	13,367
0	0	0%	0	0%	Insecticides	0	500	0%	400	0%	13,100	11,744
0	1,800	0%	800	0%	Sand/Topdress	1,049	1,800	58%	800	131%	15,200	10,519
0	1,500	0%	0	0%	Seeds/Trees	5,560	6,100	91%	4,320	129%	15,200	10,155
0	0	0%	0	0%	Small Tools	264	300	88%	263	101%	3,200	1,846
525	1,100	48%	525	100%	Irrigation	1,050	2,200	48%	1,578	67%	13,200	10,689
0	0	0%	0	0%	Repair & Maint - Paths	0	0	0%	0	0%	3,000	0
2,406	1,600	150%	598	402%	Repair & Maint - Equipment	3,214	3,200	100%	1,918	168%	19,200	26,816
0	0	0%	0	0%	Repair & Maint - Building	0	0	0%	0	0%	3,150	2,133
7,140	7,671	93%	7,851	91%	Equipment Lease	14,280	15,342	93%	15,350	93%	92,052	86,353
285	250	114%	215	133%	Utilities - Electric	568	500	114%	465	122%	3,000	3,307
1,682	1,800	93%	1,931	87%	Utilities - Other	2,938	3,600	82%	3,669	80%	21,600	20,981
244	300	81%	291	84%	Utilities - Water	448	600	75%	543	83%	2,600	2,594
0	0	0%	0	0%	Education & Training	0	0	0%	0	0%	550	400
0	50	0%	0	0%	Employee Relations	0	100	0%	0	0%	600	47
34	0	0%	0	0%	Employee Testing	34	0	0%	0	0%	0	92
0	0	0%	0	0%	O/S - Other	0	0	0%	0	0%	6,000	5,800
0	0	0%	0	0%	Tax/Licenses/Fees	0	0	0%	0	0%	150	165
16,666	23,171	72%	19,071	87%	TOTAL OPERATING EXPENSES	48,717	57,742	84%	47,731	102%	342,652	307,958
32,942	35,310	93%	22,200	148%	EBITDA	10,661	40,630	26%	30,908	34%	233,206	260,806
32,942	35,310	93%	22,200	148%	NET INCOME	10,661	40,630	26%	30,908	34%	233,206	260,806

The Golf Club at Cypress Head
Carts
For the Two Months Ending November 30, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
					REVENUES							
45,815	43,210	106%	46,639	98%	Cart Fee	74,395	81,890	91%	89,833	83%	534,440	563,851
45,815	43,210	106%	46,639	98%	Total Revenues	74,395	81,890	91%	89,833	83%	534,440	563,851
45,815	43,210	106%	46,639	98%	GROSS MARGIN	74,395	81,890	91%	89,833	83%	534,440	563,851
					PAYROLL							
9,573	7,826	122%	7,772	123%	Gross Payroll - Hourly	16,949	15,912	107%	16,032	106%	95,213	98,069
9,573	7,826	122%	7,772	123%	S/T Wages	16,949	15,912	107%	16,032	106%	95,213	98,069
762	599	127%	627	122%	Payroll Tax - FICA	1,326	1,217	109%	1,303	102%	7,284	7,983
48	239	20%	80	61%	Payroll Tax - UC	67	539	12%	163	41%	3,380	928
182	154	118%	145	125%	Payroll Tax - WC	274	313	88%	288	95%	1,928	1,904
0	0	0%	0	0%	Benefits	0	0	0%	0	0%	0	8
993	991	100%	852	117%	S/T Adders	1,667	2,069	81%	1,754	95%	12,591	10,824
10,566	8,817	120%	8,624	123%	TOTAL PAYROLL	18,616	17,981	104%	17,786	105%	107,804	108,893
					OPERATING EXPENSES							
149	100	149%	90	166%	Cart Supplies	231	200	116%	165	140%	1,200	2,238
521	0	0%	0	0%	Supplies	521	0	0%	0	0%	0	521
0	50	0%	14	0%	Cart Repairs	0	100	0%	141	0%	1,200	836
8,577	5,200	165%	2,854	301%	Cart Lease	17,154	10,400	165%	7,069	243%	62,400	54,113
605	900	67%	978	62%	Utilities - Electric	1,083	1,800	60%	1,931	56%	10,800	10,583
9,852	6,250	158%	3,935	250%	TOTAL OPERATING EXPENSES	18,989	12,500	152%	9,307	204%	75,600	68,291
25,397	28,143	90%	34,081	75%	EBITDA	36,790	51,409	72%	62,741	59%	351,036	386,668
25,397	28,143	90%	34,081	75%	NET INCOME	36,790	51,409	72%	62,741	59%	351,036	386,668

The Golf Club at Cypress Head
Range
For the Two Months Ending November 30, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
					REVENUES							
3,823	4,600	83%	4,562	84%	Range	6,780	8,900	76%	8,873	76%	52,400	49,504
3,823	4,600	83%	4,562	84%	Total Revenues	6,780	8,900	76%	8,873	76%	52,400	49,504
3,823	4,600	83%	4,562	84%	GROSS MARGIN	6,780	8,900	76%	8,873	76%	52,400	49,504
					OPERATING EXPENSES							
2,042	1,800	113%	1,760	116%	Range Balls	2,042	1,800	113%	1,760	116%	3,600	3,802
512	0	0%	0	0%	Range Equipment	512	0	0%	0	0%	1,050	1,599
0	0	0%	0	0%	Range Expenses	0	0	0%	0	0%	2,100	1,629
0	0	0%	0	0%	Repair & Maint - Equipment	0	0	0%	0	0%	100	0
2,554	1,800	142%	1,760	145%	TOTAL OPERATING EXPENSES	2,554	1,800	142%	1,760	145%	6,850	7,030
1,269	2,800	45%	2,802	45%	EBITDA	4,226	7,100	60%	7,113	59%	45,550	42,475
1,269	2,800	45%	2,802	45%	NET INCOME	4,226	7,100	60%	7,113	59%	45,550	42,475

The Golf Club at Cypress Head
Golf Shop
For the Two Months Ending November 30, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
REVENUES												
0	20	0%	0	0%	Handicap Fee	0	40	0%	20	0%	4,130	5,005
1,998	1,400	143%	1,400	143%	Lessons	2,788	2,800	100%	2,818	99%	13,590	15,743
279	300	93%	300	93%	Rental Clubs	339	600	57%	680	50%	2,800	2,779
9,610	7,600	126%	7,592	127%	Retail	15,342	15,400	100%	15,376	100%	110,100	125,657
11,887	9,320	128%	9,292	128%	Total Revenues	18,469	18,840	98%	18,894	98%	130,620	149,184
COST OF GOODS SOLD												
6,654	4,864	137%	4,445	150%	COGS - Merchandise	10,205	9,856	104%	9,172	111%	70,464	79,975
6,654	4,864	137%	4,445	150%	Total COGS	10,205	9,856	104%	9,172	111%	70,464	79,975
5,233	4,456	117%	4,848	108%	GROSS MARGIN	8,264	8,984	92%	9,722	85%	60,156	69,209
69.24%	64.00%	108.19%	58.54%	118.28%	COGS - Merchandise %	66.52%	64.00%	103.93%	59.65%	111.51%	64.00%	751.61%
PAYROLL												
1,385	0	0%	0	0%	Gross Payroll - Salaried	1,385	0	0%	0	0%	0	1,385
7,061	6,549	108%	5,703	124%	Gross Payroll - Hourly	12,887	13,315	97%	12,173	106%	80,159	73,640
8,445	6,549	129%	5,703	148%	S/T Wages	14,272	13,315	107%	12,173	117%	80,159	75,025
644	501	128%	435	148%	Payroll Tax - FICA	1,091	1,019	107%	936	117%	6,132	5,751
11	24	46%	20	54%	Payroll Tax - UC	14	65	21%	37	37%	1,484	374
149	129	116%	111	134%	Payroll Tax - WC	234	262	89%	233	101%	1,624	1,475
628	578	109%	577	109%	Benefits	1,224	1,156	106%	1,179	104%	7,045	7,059
1,432	1,231	116%	1,144	125%	S/T Adders	2,564	2,502	102%	2,385	107%	16,285	14,659
9,877	7,780	127%	6,847	144%	TOTAL PAYROLL	16,835	15,817	106%	14,558	116%	96,444	89,684
OPERATING EXPENSES												
0	50	0%	0	0%	Office Supplies	0	100	0%	10	0%	600	266
1,525	0	0%	0	0%	Supplies	1,705	0	0%	0	0%	200	5,567
0	50	0%	0	0%	Tournament Expense	0	100	0%	59	0%	600	184
0	0	0%	0	0%	Handicap Expense	0	0	0%	0	0%	5,175	5,297
0	50	0%	0	0%	Lesson Expense	0	100	0%	0	0%	1,000	350
0	0	0%	0	0%	Repair & Maint - Building	0	0	0%	97	0%	0	947
1,525	150	1017%	0	0%	TOTAL OPERATING EXPENSES	1,705	300	568%	166	1030%	7,575	12,612
(6,169)	(3,474)	178%	(1,999)	309%	EBITDA	(10,276)	(7,133)	144%	(5,002)	205%	(43,863)	(33,087)
(6,169)	(3,474)	178%	(1,999)	309%	NET INCOME	(10,276)	(7,133)	144%	(5,002)	205%	(43,863)	(33,087)

The Golf Club at Cypress Head
G & A
For the Two Months Ending November 30, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
PAYROLL												
12,291	10,785	114%	10,318	119%	Gross Payroll - Salaried	23,510	21,333	110%	20,806	113%	131,217	131,460
52	0	0%	0	0%	Gross Payroll - Hourly	52	0	0%	0	0%	0	52
12,343	10,785	114%	10,318	120%	S/T Wages	23,562	21,333	110%	20,806	113%	131,217	131,512
808	825	98%	712	114%	Payroll Tax - FICA	1,530	1,632	94%	1,437	106%	10,038	9,048
0	0	0%	0	0%	Payroll Tax - UC	0	0	0%	0	0%	519	(129)
224	212	106%	189	119%	Payroll Tax - WC	413	420	98%	375	110%	2,658	2,526
2,847	2,593	110%	1,958	145%	Benefits	5,825	5,183	112%	4,020	145%	31,628	20,404
3,880	3,630	107%	2,859	136%	S/T Adders	7,768	7,234	107%	5,832	133%	44,843	31,848
16,223	14,414	113%	13,178	123%	TOTAL PAYROLL	31,330	28,567	110%	26,638	118%	176,060	163,360
OPERATING EXPENSES												
987	600	165%	636	155%	Janitorial Supplies	1,147	2,200	52%	2,217	52%	8,000	6,356
510	1,100	46%	1,100	46%	Laundry/Uniforms	921	1,200	77%	1,260	73%	2,200	1,180
612	1,000	61%	1,047	58%	Office Supplies	1,444	1,200	120%	1,166	124%	3,600	4,679
121	250	48%	119	102%	Alarm System	241	500	48%	237	102%	3,000	2,072
160	160	100%	160	100%	Computer Service	320	320	100%	320	100%	1,920	1,918
433	650	67%	812	53%	Contract Cleaning	1,083	1,300	83%	812	133%	7,800	7,769
1,830	0	0%	0	0%	Guest Relations	1,830	0	0%	0	0%	0	1,830
0	0	0%	0	0%	Repair & Maint - Equipment	0	0	0%	0	0%	500	4,330
225	150	150%	178	127%	Repair & Maint - Building	335	300	112%	316	106%	6,700	8,639
206	206	100%	176	117%	Off-Site Storage	412	412	100%	352	117%	2,472	2,097
1,692	2,000	85%	1,853	91%	Utilities - Other	3,679	4,000	92%	3,907	94%	24,000	24,321
(4)	200	-2%	190	-2%	Utilities - Telephone/Fax	451	400	113%	381	118%	2,400	2,283
308	400	77%	336	92%	Bank Charges	646	800	81%	727	89%	4,800	4,067
(6)	0	0%	(30)	21%	Cash Short/(Over)	(43)	0	0%	12	-344%	0	(693)
240	240	100%	200	120%	Cell Phone	480	480	100%	400	120%	2,880	2,480
3,145	3,209	98%	3,209	98%	City Surcharge R & R	5,008	6,339	79%	6,339	79%	38,940	38,755
3,062	5,500	56%	5,534	55%	Credit Card Discounts	7,033	7,800	90%	7,812	90%	36,500	41,796
0	0	0%	0	0%	Donations	0	0	0%	0	0%	0	573
65	0	0%	0	0%	Dues & Subscriptions	995	180	553%	180	553%	1,880	2,414
0	50	0%	0	0%	Employee Relations	121	100	121%	50	242%	1,550	425
7,675	6,700	115%	6,130	125%	Insurance Expense	15,350	13,400	115%	12,259	125%	80,400	81,386
6	50	12%	0	0%	Member Relations	6	100	6%	0	0%	600	2,497
8	0	0%	0	0%	Miscellaneous	8	0	0%	0	0%	0	2,089
2,000	0	0%	0	0%	O/S - Accounting	2,000	2,200	91%	2,100	95%	11,200	16,130
380	350	109%	402	94%	Payroll Processing Fee	758	700	108%	723	105%	4,350	5,118
179	100	179%	107	167%	Postage/Shipping	399	200	199%	233	171%	1,750	2,887
(30)	0	0%	(30)	100%	Tax/Licenses/Fees	(60)	0	0%	(60)	100%	0	(285)
0	100	0%	0	0%	Travel - Meals	0	200	0%	232	0%	2,100	883
668	100	668%	408	164%	Travel - Other	7,668	200	3834%	972	789%	1,200	9,987
0	0	0%	0	0%	Employee Meals	0	0	0%	0	0%	0	20
24,473	23,115	106%	22,536	109%	TOTAL OPERATING EXPENSES	52,234	44,531	117%	42,949	122%	250,742	278,004
(40,696)	(37,529)	108%	(35,713)	114%	EBITDA	(83,564)	(73,098)	114%	(69,587)	120%	(426,802)	(441,364)
6,400	6,434	99%	6,307	101%	Management Fee	12,674	12,868	98%	12,615	100%	77,208	75,875
6,400	6,434	99%	6,307	101%	Management Fees	12,674	12,868	98%	12,615	100%	77,208	75,875
23	23	100%	23	100%	Deprec - Mach & Equip	46	46	100%	46	100%	277	277
72	72	100%	72	100%	Deprec - Buildings	145	145	100%	145	100%	869	869
96	96	100%	96	100%	S/T DEPR. & AMORT	191	191	100%	191	100%	1,146	1,146
(47,191)	(44,059)	107%	(42,116)	112%	NET INCOME	(96,429)	(86,157)	112%	(82,393)	117%	(505,156)	(518,385)

The Golf Club at Cypress Head
Marketing
For the Two Months Ending November 30, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
					PAYROLL							
3,490	3,742	93%	3,618	96%	Gross Payroll - Salaried	6,904	7,483	92%	6,934	100%	46,070	48,136
3,490	3,742	93%	3,618	96%	S/T Wages	6,904	7,483	92%	6,934	100%	46,070	48,136
264	286	92%	256	103%	Payroll Tax - FICA	549	572	96%	496	111%	3,524	3,350
0	15	0%	0	0%	Payroll Tax - UC	0	30	0%	0	0%	438	88
64	74	87%	67	96%	Payroll Tax - WC	132	147	89%	128	103%	933	908
44	42	105%	586	7%	Benefits	89	84	107%	1,186	8%	516	5,240
372	416	89%	908	41%	S/T Adders	770	833	92%	1,810	43%	5,411	9,586
3,862	4,158	93%	4,526	85%	TOTAL PAYROLL	7,674	8,316	92%	8,744	88%	51,481	57,722
					OPERATING EXPENSES							
1,042	3,000	35%	3,030	34%	Advertising & Promotion	1,855	4,300	43%	4,309	43%	23,400	21,432
1,042	3,000	35%	3,030	34%	TOTAL OPERATING EXPENSES	1,855	4,300	43%	4,309	43%	23,400	21,432
(4,904)	(7,158)	69%	(7,556)	65%	EBITDA	(9,529)	(12,616)	76%	(13,053)	73%	(74,881)	(79,154)
(4,904)	(7,158)	69%	(7,556)	65%	NET INCOME	(9,529)	(12,616)	76%	(13,053)	73%	(74,881)	(79,154)

TRIAL BALANCE SUMMARY FOR 2022

The Golf Club at Cypress Head

General Ledger

Ranges: From:
Date: 12/1/2022
Account: First

To:
12/31/2022
Last

Sorted By: Account
Include: Posting, Unit
Print Currency In: Functional (Z-US\$)

Inactive	Account	Description	Beginning Balance	Debit	Credit	Net Change	Ending Balance
	10020-5950-900	Cash - Course Depository NEW	\$267,765.47	\$181,726.29	\$200,814.99	(\$19,088.70)	\$248,676.77
	10050-5950-900	Cash - Course Payroll BMO	\$8,201.99	\$66,000.00	\$61,995.92	\$4,004.08	\$12,206.07
	10100-5950-900	Cash - Course Other	\$850.00	\$0.00	\$0.00	\$0.00	\$850.00
	10180-5950-900	Cash - Pro Shop Bank	\$500.00	\$0.00	\$0.00	\$0.00	\$500.00
	11160-5950-900	A/R Member	\$430.27	\$37,451.91	\$37,510.54	(\$58.63)	\$371.64
	12000-5950-900	Inventory - Merchandise	\$40,866.97	\$25,642.25	\$17,001.86	\$8,640.39	\$49,507.36
	13020-5950-900	Prepaid Insurance	\$23,558.70	\$14,692.00	\$7,675.12	\$7,016.88	\$30,575.58
	13040-5950-900	Prepaid Exp - Other	\$29,765.80	\$5,694.75	\$486.34	\$5,208.41	\$34,974.21
	20100-5950-900	Machinery & Equipment	\$5,550.40	\$0.00	\$0.00	\$0.00	\$5,550.40
	20160-5950-900	Buildings and Improvements	\$30,597.54	\$0.00	\$0.00	\$0.00	\$30,597.54
	22040-5950-900	Accum. Deprec - Mach & Equip	(\$4,763.18)	\$0.00	\$23.12	(\$23.12)	(\$4,786.30)
	22080-5950-900	Accum. Deprec - Buildings	(\$26,542.53)	\$0.00	\$72.41	(\$72.41)	(\$26,614.94)
	30000-5950-900	Accts Pay - Trade	(\$53,614.36)	\$105,784.88	\$134,092.00	(\$28,307.12)	(\$81,921.48)
	30040-5950-900	Accts Pay - Other	(\$34.97)	\$16,158.60	\$16,159.24	(\$0.64)	(\$35.61)
	31000-5950-900	Accrued Expenses	\$0.00	\$0.00	\$269.95	(\$269.95)	(\$269.95)
	31020-5950-900	Accrued Payroll	(\$40,096.07)	\$28,593.92	\$35,160.15	(\$6,566.23)	(\$46,662.30)
	31080-5950-900	Accrued Tips Payable	(\$246.00)	\$1,002.30	\$756.30	\$246.00	\$0.00
	31220-5950-900	Accrued Sales Tax	(\$9,264.17)	\$9,264.17	\$10,763.84	(\$1,499.67)	(\$10,763.84)
	31400-5950-900	Accrued City Surcharge	\$0.00	\$3,446.98	\$3,446.98	\$0.00	\$0.00
	32000-5950-900	Deferred Rev - Rainchecks	(\$5,529.09)	\$2,815.14	\$2,543.29	\$271.85	(\$5,257.24)
	32020-5950-900	Deferred Rev - Outing Deposits	(\$37,096.34)	\$57,648.80	\$25,134.07	\$32,514.73	(\$4,581.61)
	32040-5950-900	Deferred Rev - Legacy GF Passes	(\$26,727.55)	\$2,672.75	\$0.00	\$2,672.75	(\$24,054.80)
	32050-5950-900	Deferred Revenue - Cypress GF Passes	(\$27,265.29)	\$2,726.53	\$2,636.16	\$90.37	(\$27,174.92)
	32060-5950-900	Deferred Rev - Gift Certificates	\$0.00	\$0.00	\$2,661.49	(\$2,661.49)	(\$2,661.49)
	32070-5950-900	Deferred Rev - Gift Cards	(\$37,247.08)	\$1,169.57	\$3,192.57	(\$2,023.00)	(\$39,270.08)
	32100-5950-900	Deferred Rev - Credit Books	(\$14,150.04)	\$1,937.16	\$1,128.37	\$808.79	(\$13,341.25)
	32120-5950-900	Deferred Rev - Trail Fee Pass	(\$65,874.37)	\$7,248.94	\$0.00	\$7,248.94	(\$58,625.43)
	49020-5950-900	Retained Earnings - Current	(\$124,193.13)	\$0.00	\$0.00	\$0.00	(\$124,193.13)
	50000-5950-100	Green Fees - Annual Pass	(\$10,613.56)	\$0.00	\$5,399.28	(\$5,399.28)	(\$16,012.84)
	5003A-5950-100	Green Fee - Group	(\$21,816.12)	\$0.00	\$8,643.06	(\$8,643.06)	(\$30,459.18)
	50040-5950-100	Green Fees - Member	(\$406.56)	\$0.00	\$1,635.45	(\$1,635.45)	(\$2,042.01)
	5006A-5950-100	Green Fee - Junior	(\$109.04)	\$0.00	\$15.04	(\$15.04)	(\$124.08)
	50070-5950-100	Green Fees - (surcharge)	(\$5,008.25)	\$3,446.98	\$6,895.84	(\$3,448.86)	(\$8,457.11)
	5007A-5950-100	Green Fee - League	(\$16,149.38)	\$0.00	\$9,914.89	(\$9,914.89)	(\$26,064.27)
	5010A-5950-100	Green Fee - Non-Resident (Standard)	(\$7,027.65)	\$0.00	\$6,921.02	(\$6,921.02)	(\$13,948.67)
	5012A-5950-100	Green Fee - Outing	(\$7,169.03)	\$0.00	\$9,693.36	(\$9,693.36)	(\$16,862.39)
	5014A-5950-100	Green Fee - Resident	(\$41,564.46)	\$0.00	\$33,896.85	(\$33,896.85)	(\$75,461.31)
	5015A-5950-100	Green Fee - Senior	(\$23,796.56)	\$0.00	\$20,432.99	(\$20,432.99)	(\$44,229.55)
	5018A-5950-100	Green Fee - Twilight	(\$17.10)	\$0.00	\$9.50	(\$9.50)	(\$26.60)
	5019A-5950-100	Green Fee - Wholesale	(\$360.84)	\$0.00	\$69.52	(\$69.52)	(\$430.36)
	50500-5950-200	Cart Fee 18	(\$60,228.27)	\$0.00	\$44,507.84	(\$44,507.84)	(\$104,736.11)
	50520-5950-200	Cart Fee - Annual Trail	(\$14,167.13)	\$0.00	\$7,248.94	(\$7,248.94)	(\$21,416.07)
	52090-5950-600	Handicap Fee	\$0.00	\$0.00	\$95.00	(\$95.00)	(\$95.00)
	52150-5950-600	Lessons	(\$2,788.00)	\$0.00	\$739.00	(\$739.00)	(\$3,527.00)
	52280-5950-600	Rental Clubs	(\$339.06)	\$0.00	\$800.60	(\$800.60)	(\$1,139.66)
	52310-5950-600	Retail	(\$15,342.26)	\$0.00	\$21,332.57	(\$21,332.57)	(\$36,674.83)
	53050-5950-220	Range Pass Revenue	(\$6,780.22)	\$0.00	\$4,403.90	(\$4,403.90)	(\$11,184.12)
	56120-5950-100	City Surcharge R & R	(\$5,008.25)	\$0.00	\$3,446.98	(\$3,446.98)	(\$8,455.23)
	60000-5950-600	COGS - Merchandise - Accessories	\$10,205.26	\$16,313.10	\$0.00	\$16,313.10	\$26,518.36
	70000-5950-100	Gross Payroll - Salaried	\$21,138.64	\$15,659.99	\$4,370.22	\$11,289.77	\$32,428.41
	70000-5950-600	Gross Payroll - Salaried	\$1,384.68	\$5,844.98	\$1,384.68	\$4,460.30	\$5,844.98
	70000-5950-900	Gross Payroll - Salaried	\$23,510.39	\$17,837.85	\$4,929.03	\$12,908.82	\$36,419.21
	70000-5950-950	Gross Payroll - Salaried	\$6,904.44	\$6,020.18	\$1,321.87	\$4,698.31	\$11,602.75

TRIAL BALANCE SUMMARY FOR 2022

The Golf Club at Cypress Head

Inactive	Account	Description	Beginning Balance	Debit	Credit	Net Change	Ending Balance
	70010-5950-100	Gross Payroll - Hourly	\$47,915.05	\$30,099.22	\$9,104.96	\$20,994.26	\$68,909.31
	70010-5950-200	Gross Payroll - Hourly	\$16,948.77	\$14,520.03	\$3,963.69	\$10,556.34	\$27,505.11
	70010-5950-600	Gross Payroll - Hourly	\$12,887.03	\$5,208.11	\$1,588.56	\$3,619.55	\$16,506.58
	70010-5950-900	Gross Payroll - Hourly	\$51.52	\$128.48	\$51.52	\$76.96	\$128.48
	71000-5950-100	Payroll Tax - FICA	\$5,107.00	\$3,416.67	\$1,030.85	\$2,385.82	\$7,492.82
	71000-5950-200	Payroll Tax - FICA	\$1,326.29	\$1,180.27	\$303.22	\$877.05	\$2,203.34
	71000-5950-600	Payroll Tax - FICA	\$1,090.97	\$831.61	\$215.78	\$615.83	\$1,706.80
	71000-5950-900	Payroll Tax - FICA	\$1,529.58	\$1,238.55	\$381.01	\$857.54	\$2,387.12
	71000-5950-950	Payroll Tax - FICA	\$548.54	\$359.68	\$101.13	\$258.55	\$807.09
	71010-5950-100	Payroll Tax - UC	\$12.01	\$6.59	\$0.00	\$6.59	\$18.60
	71010-5950-200	Payroll Tax - UC	\$66.94	\$54.33	\$0.00	\$54.33	\$121.27
	71010-5950-600	Payroll Tax - UC	\$13.65	\$7.02	\$0.00	\$7.02	\$20.67
	71010-5950-900	Payroll Tax - UC	\$0.18	\$0.57	\$0.00	\$0.57	\$0.75
	71020-5950-100	Payroll Tax - WC	\$1,172.02	\$597.31	\$0.00	\$597.31	\$1,769.33
	71020-5950-200	Payroll Tax - WC	\$274.21	\$194.60	\$0.00	\$194.60	\$468.81
	71020-5950-600	Payroll Tax - WC	\$234.45	\$143.32	\$0.00	\$143.32	\$377.77
	71020-5950-900	Payroll Tax - WC	\$413.24	\$231.43	\$0.00	\$231.43	\$644.67
	71020-5950-950	Payroll Tax - WC	\$131.56	\$60.66	\$0.00	\$60.66	\$192.22
	71030-5950-100	Benefits	\$4,324.44	\$5,386.89	\$3,215.87	\$2,171.02	\$6,495.46
	71030-5950-200	Benefits	\$0.00	\$234.22	\$421.52	(\$187.30)	(\$187.30)
	71030-5950-600	Benefits	\$1,224.46	\$1,396.02	\$588.03	\$807.99	\$2,032.45
	71030-5950-900	Benefits	\$5,825.25	\$5,355.39	\$2,388.73	\$2,966.66	\$8,791.91
	71030-5950-950	Benefits	\$89.42	\$230.54	\$189.08	\$41.46	\$130.88
	80110-5950-200	Cart Supplies	\$231.25	\$25.97	\$0.00	\$25.97	\$257.22
	80120-5950-100	Chemicals	\$750.77	\$657.18	\$0.00	\$657.18	\$1,407.95
	80170-5950-100	Course Accessories	\$919.70	\$0.00	\$0.00	\$0.00	\$919.70
	80230-5950-100	Fertilizer	\$12,197.30	\$1,258.00	\$0.00	\$1,258.00	\$13,455.30
	80250-5950-100	Flowers/Decor	\$0.00	\$97.26	\$0.00	\$97.26	\$97.26
	80270-5950-100	Fuel	\$2,888.49	\$2,822.33	\$0.00	\$2,822.33	\$5,710.82
	80280-5950-100	Fungicides	\$991.92	\$0.00	\$0.00	\$0.00	\$991.92
	80320-5950-100	Herbicides	\$1,563.75	\$2,738.69	\$0.00	\$2,738.69	\$4,302.44
	80380-5950-900	Janitorial Supplies	\$1,147.30	\$369.55	\$0.00	\$369.55	\$1,516.85
	80420-5950-900	Laundry/Uniforms	\$920.95	\$270.57	\$0.00	\$270.57	\$1,191.52
	80520-5950-900	Office Supplies	\$1,443.66	\$696.25	\$0.00	\$696.25	\$2,139.91
	80610-5950-220	Range Balls	\$2,042.14	\$0.00	\$0.00	\$0.00	\$2,042.14
	80620-5950-220	Range Equipment	\$511.96	\$159.85	\$0.00	\$159.85	\$671.81
	80690-5950-100	Sand/Topdress	\$1,048.64	\$1,531.40	\$0.00	\$1,531.40	\$2,580.04
	80710-5950-100	Seeds/Trees	\$5,560.00	\$0.00	\$0.00	\$0.00	\$5,560.00
	80730-5950-100	Small Tools	\$263.97	\$0.00	\$0.00	\$0.00	\$263.97
	80770-5950-100	Staff/Volunteer Uniforms	\$0.00	\$168.81	\$0.00	\$168.81	\$168.81
	80780-5950-200	Supplies	\$521.16	\$2,094.24	\$0.00	\$2,094.24	\$2,615.40
	80780-5950-600	Supplies	\$1,704.61	\$587.93	\$241.90	\$346.03	\$2,050.64
	80810-5950-600	Tournament Expense	\$0.00	\$46.59	\$0.00	\$46.59	\$46.59
	81010-5950-900	Alarm System	\$241.00	\$445.96	\$0.00	\$445.96	\$686.96
	81090-5950-200	Cart Repairs	\$0.00	\$320.24	\$0.00	\$320.24	\$320.24
	81130-5950-900	Computer Service	\$319.68	\$259.93	\$0.00	\$259.93	\$579.61
	81140-5950-900	Contract Cleaning	\$1,083.40	\$710.00	\$0.00	\$710.00	\$1,793.40
	81200-5950-900	Guest Relations	\$1,830.00	\$3,660.00	\$0.00	\$3,660.00	\$5,490.00
	81220-5950-600	Handicap Expense	\$0.00	\$256.00	\$0.00	\$256.00	\$256.00
	81250-5950-100	Irrigation	\$1,050.00	\$1,282.09	\$0.00	\$1,282.09	\$2,332.09
	81350-5950-100	Repair & Maint - Equipment	\$3,213.88	\$1,586.73	\$0.00	\$1,586.73	\$4,800.61
	81350-5950-900	Repair & Maint - Equipment	\$0.00	\$64.00	\$0.00	\$64.00	\$64.00
	81360-5950-100	Repair & Maint - Building	\$0.00	\$556.75	\$0.00	\$556.75	\$556.75
	81360-5950-900	Repair & Maint - Building	\$335.00	\$317.57	\$0.00	\$317.57	\$652.57
	82000-5950-200	Cart Lease	\$17,154.00	\$8,577.00	\$0.00	\$8,577.00	\$25,731.00
	82020-5950-100	Equipment Lease	\$14,280.00	\$7,140.00	\$0.00	\$7,140.00	\$21,420.00
	82060-5950-900	Off-Site Storage	\$412.00	\$206.00	\$0.00	\$206.00	\$618.00
	83000-5950-100	Utilities - Electric	\$568.23	\$277.39	\$0.00	\$277.39	\$845.62
	83000-5950-200	Utilities - Electric	\$1,082.57	\$613.67	\$0.00	\$613.67	\$1,696.24
	83020-5950-100	Utilities - Other	\$2,938.28	\$1,644.32	\$0.00	\$1,644.32	\$4,582.60

TRIAL BALANCE SUMMARY FOR 2022

The Golf Club at Cypress Head

Inactive	Account	Description	Beginning Balance	Debit	Credit	Net Change	Ending Balance
	83020-5950-900	Utilities - Other	\$3,679.03	\$1,878.67	\$0.00	\$1,878.67	\$5,557.70
	83030-5950-900	Utilities - Telephone/Fax	\$450.73	\$196.31	\$0.00	\$196.31	\$647.04
	83050-5950-100	Utilities - Water	\$448.13	\$267.41	\$0.00	\$267.41	\$715.54
	84040-5950-950	Adv/Promo - Mktg/Bus Dev	\$1,855.28	\$2,176.64	\$0.00	\$2,176.64	\$4,031.92
	85020-5950-900	Bank Charges	\$646.43	\$340.38	\$0.00	\$340.38	\$986.81
	85050-5950-900	Cash Short/(Over)	(\$42.72)	\$27.74	\$105.50	(\$77.76)	(\$120.48)
	85060-5950-900	Cell Phone	\$480.00	\$240.00	\$0.00	\$240.00	\$720.00
	85070-5950-900	City Surcharge R & R	\$5,008.25	\$3,446.98	\$0.00	\$3,446.98	\$8,455.23
	85120-5950-900	Credit Card Discounts	\$7,033.22	\$3,626.01	\$0.00	\$3,626.01	\$10,659.23
	85150-5950-900	Dues & Subscriptions	\$995.00	\$1,042.00	\$0.00	\$1,042.00	\$2,037.00
	85190-5950-100	Employee Relations	\$0.00	\$178.05	\$0.00	\$178.05	\$178.05
	85190-5950-900	Employee Relations	\$121.34	\$3,820.34	\$3,217.99	\$602.35	\$723.69
	85200-5950-100	Employee Testing	\$34.01	\$0.00	\$0.00	\$0.00	\$34.01
	85200-5950-150	Employee Testing	\$0.00	\$31.60	\$0.00	\$31.60	\$31.60
	85280-5950-900	Insurance Expense	\$15,350.24	\$7,675.12	\$0.00	\$7,675.12	\$23,025.36
	85320-5950-900	Member Relations	\$6.00	\$297.65	\$412.72	(\$115.07)	(\$109.07)
	85340-5950-900	Miscellaneous	\$8.23	\$0.00	\$0.00	\$0.00	\$8.23
	85390-5950-900	O/S - Accounting	\$2,000.00	\$7,500.00	\$0.00	\$7,500.00	\$9,500.00
	85480-5950-900	Payroll Processing Fee	\$757.98	\$436.11	\$0.00	\$436.11	\$1,194.09
	85490-5950-900	Postage/Shipping	\$398.75	\$155.92	\$0.00	\$155.92	\$554.67
	85610-5950-900	Tax/Licenses/Fees	(\$60.00)	\$69.99	\$30.00	\$39.99	(\$20.01)
	85720-5950-900	Travel - Other	\$7,668.36	\$132.95	\$0.00	\$132.95	\$7,801.31
	89020-5950-900	Employee Meals	\$0.00	\$25.00	\$0.00	\$25.00	\$25.00
	90000-5950-900	Management Fee	\$12,673.85	\$6,400.00	\$0.00	\$6,400.00	\$19,073.85
	98020-5950-900	Deprec - Mach & Equip	\$46.24	\$23.12	\$0.00	\$23.12	\$69.36
	98040-5950-900	Deprec - Buildings	\$144.82	\$72.41	\$0.00	\$72.41	\$217.23
	R002A-5950-100	Rounds - Annual	8,942.00	353.00	0.00	353.00	9,295.00
	R003A-5950-100	Rounds - Group	11,027.00	448.00	0.00	448.00	11,475.00
	R005A-5950-100	Rounds - Green Fee - Hotel	42.00	0.00	0.00	0.00	42.00
	R006A-5950-100	Rounds - Green Fee - Junior	1,316.00	4.00	0.00	4.00	1,320.00
	R007A-5950-100	Rounds - Green Fee - League	12,474.00	449.00	0.00	449.00	12,923.00
	R010A-5950-100	Rounds - Green Fee - Non-Resident (Standard)	3,849.00	190.00	0.00	190.00	4,039.00
	R011A-5950-100	Rounds - Green Fee - Non-Revenue	482.00	24.00	0.00	24.00	506.00
	R012A-5950-100	Rounds - Green Fee - Outing	6,184.00	287.00	0.00	287.00	6,471.00
	R014A-5950-100	Rounds - Resident	38,722.00	1,622.00	0.00	1,622.00	40,344.00
	R015A-5950-100	Rounds - Green Fee - Senior	14,507.00	624.00	0.00	624.00	15,131.00
	R016A-5950-100	Rounds - Green Fee - Staff	3,301.00	110.00	0.00	110.00	3,411.00
	R017A-5950-100	Rounds - Green Fee - Trade	2,403.00	102.00	0.00	102.00	2,505.00
	R018A-5950-100	Rounds - Green Fee - Twilight	9.00	5.00	0.00	5.00	14.00
	R019A-5950-100	Rounds - Green Fee - Wholesale	220.00	2.00	0.00	2.00	222.00
	RCMWD-5950-100	Rounds - Complimentary - Weekday	15,846.00	0.00	0.00	0.00	15,846.00
	REMWD-5950-100	Rounds - Employee - Weekday	21,589.00	0.00	0.00	0.00	21,589.00
	RMBWD-5950-100	Rounds - Member - Weekday	80,170.00	0.00	0.00	0.00	80,170.00
	RPKWD-5950-100	Rounds - Peak - Weekday	450,023.00	0.00	0.00	0.00	450,023.00
	RPKWE-5950-100	Rounds - Peak - Weekend	5,071.00	0.00	0.00	0.00	5,071.00

The Golf Club at Cypress Head

For the Three Months Ending December 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
REVENUES												
151,837	114,661	132%	130,621	116%	Green Fees & Cart Fees	360,271	363,578	99%	359,847	100%	1,525,011	1,558,239
21,333	7,800	273%	7,809	273%	Merchandise	36,675	23,200	158%	23,185	158%	110,100	139,181
1,635	620	264%	650	251%	Other Pro Shop	4,762	4,060	117%	4,168	114%	20,520	24,512
4,404	4,200	105%	5,205	85%	Range	11,184	13,100	85%	14,077	79%	52,400	48,703
3,447	3,200	108%	3,423	101%	Other Operating Revenues	8,455	9,500	89%	9,761	87%	38,100	38,780
182,655	130,481	140%	147,707	124%	TOTAL REVENUE	421,346	413,438	102%	411,038	103%	1,746,131	1,809,414
COST OF SALES												
16,313	4,992	327%	4,695	347%	Merchandise	26,518	14,848	179%	13,867	191%	70,464	91,593
16,313	4,992	327%	4,695	347%	TOTAL COGS	26,518	14,848	179%	13,867	191%	70,464	91,593
76.5%	64.0%	119.5%	60.1%	127.2%	COGS - Merchandise %	72.3%	64.0%	113.0%	59.8%	120.9%	64.0%	768.0%
PAYROLL												
37,445	37,850	99%	35,373	106%	Course and Grounds	117,114	112,805	104%	102,466	114%	452,813	445,235
11,495	9,063	127%	8,936	129%	Carts, Range, Starters, Etc.	30,111	27,044	111%	26,721	113%	107,804	111,452
9,654	7,896	122%	6,740	143%	Pro Shop	26,489	23,713	112%	21,298	124%	96,444	92,598
17,042	14,414	118%	13,103	130%	General and Administrative	48,372	42,982	113%	39,741	122%	176,060	167,299
5,059	4,158	122%	4,505	112%	Marketing	12,733	12,474	102%	13,248	96%	51,481	58,276
80,695	73,381	110%	68,656	118%	TOTAL PAYROLL	234,819	219,018	107%	203,474	115%	884,602	874,860
OPERATING EXPENSES												
22,238	24,071	92%	19,684	113%	Course and Grounds	70,955	81,813	87%	67,415	105%	342,652	310,512
11,791	6,700	176%	5,187	227%	Carts, Range, Starters, Etc.	33,334	21,000	159%	16,253	205%	82,450	81,925
649	375	173%	225	288%	Pro Shop	2,353	675	349%	391	603%	7,575	13,036
34,145	27,479	124%	25,092	136%	General and Administrative	86,379	72,010	120%	68,041	127%	250,742	287,057
2,177	1,500	145%	1,491	146%	Marketing	4,032	5,800	70%	5,800	70%	23,400	22,118
70,999	60,125	118%	51,678	137%	TOTAL OPERATING EXPENSES	197,053	181,298	109%	157,900	125%	706,819	714,648
168,007	138,498	121%	125,029	134%	TOTAL EXPENSES	458,391	415,164	110%	375,241	122%	1,661,885	1,681,101
14,648	(8,017)	-183%	22,678	65%	EBITDA	(37,044)	(1,726)	2146%	35,798	-103%	84,246	128,313

The Golf Club at Cypress Head

For the Three Months Ending December 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
14,648	(8,017)	-183%	22,678	65%	EBITDA	(37,044)	(1,726)	2146%	35,798	-103%	84,246	128,313
(6,400)	(6,434)	99%	(6,307)	101%	MANAGEMENT FEES	(19,074)	(19,302)	99%	(18,922)	101%	(77,208)	(75,967)
(96)	(96)	100%	(96)	100%	OTHER INCOME (EXPENSE)	(287)	(287)	100%	(287)	100%	(1,146)	(1,146)
(96)	(96)	100%	(96)	100%	Depreciation & Amortization	(287)	(287)	100%	(287)	100%	(1,146)	(1,146)
8,152	(14,547)	-56%	16,275	50%	NET INCOME	(56,405)	(21,315)	265%	16,589	-340%	5,892	51,200
3,631	2,513	144%	3,575	102%	Paid Rounds	9,043	8,205	110%	10,268	88%	37,780	41,504
353	278	127%	391	90%	Annual Pass Rounds	871	944	92%	1,100	79%	4,748	4,177
236	215	110%	268	88%	Other Rounds	643	666	97%	809	79%	2,636	2,870
4,220	3,006	140%	4,234	100%	Total Rounds	10,557	9,815	108%	12,177	87%	45,164	48,551
50	52	97%	41	122%	Revenue/Paid Rounds	47	50	92%	40	116%	46	520
43	43	100%	35	124%	Revenue/Total Rounds	40	42	95%	34	118%	39	443

The Golf Club at Cypress Head

For the Three Months Ending December 31, 2022

	<u>12/31/22</u>	<u>09/30/22</u>	<u>12/31/21</u>
ASSETS			
CURRENT ASSETS:			
Cash			
Cash - Depository	248,677	242,333	177,701
Cash - Payroll	12,206	37,304	28,590
Cash - Manual Checks	850	850	850
Cash - Housebank & Other	500	500	500
Total Cash	<u>262,233</u>	<u>280,987</u>	<u>207,640</u>
Accounts Receivable			
A/R Member	<u>372</u>	<u>93,810</u>	<u>1,560</u>
Total Accounts Recievable	<u>372</u>	<u>93,810</u>	<u>1,560</u>
Other Current Assets			
Inventory - Merchandise	49,507	21,177	29,252
Prepaid Insurance	30,576	38,909	24,080
Prepaid Exp - Other	<u>34,974</u>	<u>12,835</u>	<u>33,565</u>
Total Other Current Assets	<u>115,057</u>	<u>72,922</u>	<u>86,897</u>
TOTAL CURRENT ASSETS	<u>377,662</u>	<u>447,718</u>	<u>296,098</u>
PROPERTY, PLANT AND EQUIPMENT:			
Buildings & Improvements	30,598	30,598	30,598
Machinery & Equipment	<u>5,550</u>	<u>5,550</u>	<u>5,550</u>
Property Plant and Equipment	36,148	36,148	36,148
Accumulated Depreciation	<u>(31,401)</u>	<u>(31,115)</u>	<u>(30,255)</u>
TOTAL PROPERTY, PLANT AND EQUIPMENT	<u>4,747</u>	<u>5,033</u>	<u>5,893</u>
TOTAL ASSETS	<u><u>382,408</u></u>	<u><u>452,752</u></u>	<u><u>301,991</u></u>

The Golf Club at Cypress Head
For the Three Months Ending December 31, 2022

	<u>12/31/22</u>	<u>09/30/22</u>	<u>12/31/21</u>
LIABILITIES AND STOCKHOLDERS' EQUITY			
CURRENT LIABILITIES:			
Accts Pay - Trade	81,921	53,494	53,495
Accts Pay - Other	36	(1,164)	(4,542)
Accrued Expenses	270	3,075	(2,131)
Accrued Payroll	46,662	22,112	31,369
Accrued Taxes	10,764	5,805	9,280
Deferred Revenue	<u>174,967</u>	<u>245,237</u>	<u>188,757</u>
TOTAL CURRENT LIABILITIES	<u>314,620</u>	<u>328,559</u>	<u>276,228</u>
 TOTAL LIABILITIES	 <u>314,620</u>	 <u>328,559</u>	 <u>276,228</u>
 STOCKHOLDER'S EQUITY			
Retained Earnings	<u>67,788</u>	<u>124,193</u>	<u>25,762</u>
Net Retained Earnings	<u>67,788</u>	<u>124,193</u>	<u>25,762</u>
Stockholders Equity	<u>67,788</u>	<u>124,193</u>	<u>25,762</u>
TOTAL STOCKHOLDER'S EQUITY	<u>67,788</u>	<u>124,193</u>	<u>25,762</u>
 TOTAL LIABILITIES AND STOCKHOLDER'S EQUITY	 <u><u>382,408</u></u>	 <u><u>452,752</u></u>	 <u><u>301,991</u></u>

The Golf Club at Cypress Head
Summary of All Units
For the Three Months Ending December 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
REVENUES												
100,080	77,701	129%	79,908	125%	Green Fees	234,118	244,728	96%	219,301	107%	990,571	993,344
51,757	36,960	140%	50,713	102%	Cart Fee	126,152	118,850	106%	140,546	90%	534,440	564,895
95	20	475%	20	475%	Handicap Fee	95	60	158%	40	238%	4,130	5,080
739	500	148%	490	151%	Lessons	3,527	3,300	107%	3,308	107%	13,590	15,992
801	100	801%	140	572%	Rental Clubs	1,140	700	163%	820	139%	2,800	3,440
21,333	7,800	273%	7,809	273%	Retail	36,675	23,200	158%	23,185	158%	110,100	139,181
4,404	4,200	105%	5,205	85%	Range	11,184	13,100	85%	14,077	79%	52,400	48,703
3,447	3,200	108%	3,423	101%	City Surcharge R & R	8,455	9,500	89%	9,761	87%	38,100	38,780
182,655	130,481	140%	147,707	124%	Total Revenues	421,346	413,438	102%	411,038	103%	1,746,131	1,809,414
COST OF GOODS SOLD												
16,313	4,992	327%	4,695	347%	COGS - Merchandise	26,518	14,848	179%	13,867	191%	70,464	91,593
16,313	4,992	327%	4,695	347%	Total COGS	26,518	14,848	179%	13,867	191%	70,464	91,593
166,342	125,489	133%	143,012	116%	GROSS MARGIN	394,828	398,590	99%	397,172	99%	1,675,667	1,717,821
76.47%	64.00%	119.48%	60.12%	127.19%	COGS - Merchandise %	72.31%	64.00%	112.98%	59.81%	120.89%	64.00%	767.95%
PAYROLL												
33,357	25,573	130%	24,196	138%	Gross Payroll - Salaried	86,295	76,483	113%	71,060	121%	309,850	314,809
35,247	36,393	97%	35,285	100%	Gross Payroll - Hourly	113,049	108,213	104%	100,981	112%	430,230	426,227
68,604	61,966	111%	59,481	115%	S/T Wages	199,345	184,696	108%	172,041	116%	740,080	741,036
4,995	4,740	105%	4,306	116%	Payroll Tax - FICA	14,597	14,129	103%	12,642	115%	56,616	54,649
69	229	30%	424	16%	Payroll Tax - UC	161	884	18%	677	24%	9,197	1,976
1,227	1,219	101%	1,027	120%	Payroll Tax - WC	3,453	3,634	95%	3,091	112%	14,988	14,301
5,800	5,227	111%	3,418	170%	Benefits	17,263	15,675	110%	15,022	115%	63,721	62,898
12,090	11,415	106%	9,175	132%	S/T Adders	35,475	34,322	103%	31,433	113%	144,522	133,825
80,695	73,381	110%	68,656	118%	TOTAL PAYROLL	234,819	219,018	107%	203,474	115%	884,602	874,860
OPERATING EXPENSES												
26	100	26%	16	162%	Cart Supplies	257	300	86%	181	142%	1,200	2,248
657	600	110%	866	76%	Chemicals	1,408	1,800	78%	1,788	79%	7,200	7,646
0	900	0%	901	0%	Course Accessories	920	2,000	46%	2,122	43%	4,250	2,782
1,258	2,000	63%	2,008	63%	Fertilizer	13,455	14,500	93%	10,015	134%	58,500	62,751
97	900	11%	515	19%	Flowers/Decor	97	900	11%	515	19%	900	97
2,822	1,300	217%	281	1006%	Fuel	5,711	5,400	106%	4,404	130%	19,900	22,987
0	200	0%	190	0%	Fungicides	992	1,900	52%	1,547	64%	6,400	4,740
2,739	1,700	161%	1,600	171%	Herbicides	4,302	4,600	94%	4,396	98%	33,700	14,525
0	500	0%	313	0%	Insecticides	0	1,000	0%	713	0%	13,100	11,431
370	250	148%	253	146%	Janitorial Supplies	1,517	2,450	62%	2,470	61%	8,000	6,473
271	100	271%	(372)	-73%	Laundry/Uniforms	1,192	1,300	92%	888	134%	2,200	1,823
696	450	155%	355	196%	Office Supplies	2,140	1,750	122%	1,531	140%	4,200	5,287
0	0	0%	0	0%	Range Balls	2,042	1,800	113%	1,760	116%	3,600	3,802
160	0	0%	0	0%	Range Equipment	672	0	0%	0	0%	1,050	1,759
0	450	0%	460	0%	Range Expenses	0	450	0%	460	0%	2,100	1,169
1,531	1,500	102%	1,456	105%	Sand/Topdress	2,580	3,300	78%	2,256	114%	15,200	10,595
0	1,500	0%	0	0%	Seeds/Trees	5,560	7,600	73%	4,320	129%	15,200	10,155
0	300	0%	257	0%	Small Tools	264	600	44%	519	51%	3,200	1,589
169	0	0%	0	0%	Staff/Volunteer Uniforms	169	0	0%	0	0%	0	169
2,440	0	0%	0	0%	Supplies	4,666	0	0%	0	0%	200	8,529
47	50	93%	0	0%	Tournament Expense	47	150	31%	59	79%	600	231
446	250	178%	204	219%	Alarm System	687	750	92%	441	156%	3,000	2,315
320	50	640%	183	175%	Cart Repairs	320	150	213%	324	99%	1,200	974
260	160	162%	160	163%	Computer Service	580	480	121%	480	121%	1,920	2,018
710	650	109%	812	87%	Contract Cleaning	1,793	1,950	92%	1,624	110%	7,800	7,667
3,660	0	0%	0	0%	Guest Relations	5,490	0	0%	0	0%	0	5,490
256	225	114%	225	114%	Handicap Expense	256	225	114%	225	114%	5,175	5,328
1,282	1,100	117%	838	153%	Irrigation	2,332	3,300	71%	2,416	97%	13,200	11,133
0	50	0%	0	0%	Lesson Expense	0	150	0%	0	0%	1,000	350
0	0	0%	0	0%	Repair & Maint - Paths	0	0	0%	0	0%	3,000	0
1,651	1,600	103%	1,056	155%	Repair & Maint - Equipment	4,865	4,800	101%	2,974	164%	19,800	31,740
874	150	583%	12	7550%	Repair & Maint - Building	1,209	450	269%	425	285%	9,850	12,582
8,577	5,200	165%	3,535	243%	Cart Lease	25,731	15,600	165%	10,604	243%	62,400	59,155
7,140	7,671	93%	7,671	93%	Equipment Lease	21,420	23,013	93%	23,021	93%	92,052	85,822
206	206	100%	176	117%	Off-Site Storage	618	528	117%	528	117%	2,472	2,127
891	1,150	77%	1,194	75%	Utilities - Electric	2,542	3,450	74%	3,589	71%	13,800	13,587
3,523	3,800	93%	2,907	121%	Utilities - Other	10,140	11,400	89%	10,483	97%	45,600	45,918
196	200	98%	190	103%	Utilities - Telephone/Fax	647	600	108%	571	113%	2,400	2,289
267	200	134%	204	131%	Utilities - Water	716	800	89%	747	96%	2,600	2,657
2,177	1,500	145%	1,491	146%	Advertising & Promotion	4,032	5,800	70%	5,800	70%	23,400	22,118
340	400	85%	337	101%	Bank Charges	987	1,200	82%	1,063	93%	4,800	4,070
(78)	0	0%	(222)	35%	Cash Short/(Over)	(120)	0	0%	(209)	58%	0	(549)
240	240	100%	200	120%	Cell Phone	720	720	100%	600	120%	2,880	2,520
3,447	3,423	101%	3,423	101%	City Surcharge R & R	8,455	9,762	87%	9,761	87%	38,940	38,780

The Golf Club at Cypress Head
Summary of All Units
For the Three Months Ending December 31, 2022

MTD	MTD	% of	MTD	% of		YTD	YTD	% of	YTD	% of	Annual	
Actual	Budget	Budget	Prior Year	PY		Actual	Budget	Budget	Prior Year	PY	Budget	
3,626	3,300	110%	3,285	110%	Credit Card Discounts	10,659	11,100	96%	11,098	96%	36,500	42,137
0	0	0%	0	0%	Donations	0	0	0%	0	0%	0	573
1,042	200	521%	205	508%	Dues & Subscriptions	2,037	380	536%	385	529%	1,880	3,251
0	0	0%	0	0%	Education & Training	0	0	0%	0	0%	550	400
780	1,050	74%	614	127%	Employee Relations	902	1,250	72%	664	136%	2,150	638
32	0	0%	0	0%	Employee Testing	66	0	0%	0	0%	0	124
7,675	6,700	115%	6,130	125%	Insurance Expense	23,025	20,100	115%	18,389	125%	80,400	82,931
(115)	50	-230%	0	0%	Member Relations	(109)	150	-73%	0	0%	600	2,382
0	0	0%	0	0%	Miscellaneous	8	0	0%	0	0%	0	2,089
7,500	7,000	107%	6,900	109%	O/S - Accounting	9,500	9,200	103%	9,000	106%	11,200	16,730
0	0	0%	0	0%	O/S - Other	0	0	0%	0	0%	6,000	5,800
436	350	125%	437	100%	Payroll Processing Fee	1,194	1,050	114%	1,160	103%	4,350	5,117
156	250	62%	198	79%	Postage/Shipping	555	450	123%	431	129%	1,750	2,845
40	0	0%	(30)	-133%	Tax/Licenses/Fees	(20)	0	0%	(90)	22%	150	(50)
0	100	0%	245	0%	Travel - Meals	0	300	0%	477	0%	2,100	638
133	100	133%	0	0%	Travel - Other	7,801	300	2600%	972	802%	1,200	10,120
25	0	0%	0	0%	Employee Meals	25	0	0%	0	0%	0	45
70,999	60,125	118%	51,678	137%	TOTAL OPERATING EXPENSES	197,053	181,298	109%	157,900	125%	706,819	714,648
14,648	(8,017)	-183%	22,678	65%	EBITDA	(37,044)	(1,726)	2146%	35,798	-103%	84,246	128,313
6,400	6,434	99%	6,307	101%	Management Fee	19,074	19,302	99%	18,922	101%	77,208	75,967
6,400	6,434	99%	6,307	101%	Management Fees	19,074	19,302	99%	18,922	101%	77,208	75,967
23	23	100%	23	100%	Deprec - Mach & Equip	69	69	100%	69	100%	277	277
72	72	100%	72	100%	Deprec - Buildings	217	217	100%	217	100%	869	869
96	96	100%	96	100%	S/T DEPR. & AMORT	287	287	100%	287	100%	1,146	1,146
8,152	(14,547)	-56%	16,275	50%	NET INCOME	(56,405)	(21,315)	265%	16,589	-340%	5,892	51,200

The Golf Club at Cypress Head
Course & Grounds
For the Three Months Ending December 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
REVENUES												
100,080	77,701	129%	79,908	125%	Green Fees	234,118	244,728	96%	219,301	107%	990,571	993,344
3,447	3,200	108%	3,423	101%	City Surcharge R & R	8,455	9,500	89%	9,761	87%	38,100	38,780
103,527	80,901	128%	83,330	124%	Total Revenues	242,574	254,228	95%	229,062	106%	1,028,671	1,032,123
103,527	80,901	128%	83,330	124%	GROSS MARGIN	242,574	254,228	95%	229,062	106%	1,028,671	1,032,123
PAYROLL												
11,290	11,047	102%	9,761	116%	Gross Payroll - Salaried	32,428	33,141	98%	28,885	112%	132,564	126,196
20,994	21,645	97%	21,455	98%	Gross Payroll - Hourly	68,909	64,238	107%	58,947	117%	254,858	254,043
32,284	32,692	99%	31,217	103%	S/T Wages	101,338	97,379	104%	87,832	115%	387,422	380,239
2,386	2,501	95%	2,263	105%	Payroll Tax - FICA	7,493	7,450	101%	6,428	117%	29,638	27,951
7	0	0%	193	3%	Payroll Tax - UC	19	21	89%	247	8%	3,376	884
597	643	93%	516	116%	Payroll Tax - WC	1,769	1,916	92%	1,555	114%	7,845	7,369
2,171	2,013	108%	1,184	183%	Benefits	6,495	6,039	108%	6,403	101%	24,532	28,792
5,161	5,157	100%	4,156	124%	S/T Adders	15,776	15,426	102%	14,634	108%	65,391	64,996
37,445	37,850	99%	35,373	106%	TOTAL PAYROLL	117,114	112,805	104%	102,466	114%	452,813	445,235
OPERATING EXPENSES												
657	600	110%	866	76%	Chemicals	1,408	1,800	78%	1,788	79%	7,200	7,646
0	900	0%	901	0%	Course Accessories	920	2,000	46%	2,122	43%	4,250	2,782
1,258	2,000	63%	2,008	63%	Fertilizer	13,455	14,500	93%	10,015	134%	58,500	62,751
97	900	11%	515	19%	Flowers/Decor	97	900	11%	515	19%	900	97
2,822	1,300	217%	281	1006%	Fuel	5,711	5,400	106%	4,404	130%	19,900	22,987
0	200	0%	190	0%	Fungicides	992	1,900	52%	1,547	64%	6,400	4,740
2,739	1,700	161%	1,600	171%	Herbicides	4,302	4,600	94%	4,396	98%	33,700	14,525
0	500	0%	313	0%	Insecticides	0	1,000	0%	713	0%	13,100	11,431
1,531	1,500	102%	1,456	105%	Sand/Topdress	2,580	3,300	78%	2,256	114%	15,200	10,595
0	1,500	0%	0	0%	Seeds/Trees	5,560	7,600	73%	4,320	129%	15,200	10,155
0	300	0%	257	0%	Small Tools	264	600	44%	519	51%	3,200	1,589
169	0	0%	0	0%	Staff/Volunteer Uniforms	169	0	0%	0	0%	0	169
1,282	1,100	117%	838	153%	Irrigation	2,332	3,300	71%	2,416	97%	13,200	11,133
0	0	0%	0	0%	Repair & Maint - Paths	0	0	0%	0	0%	3,000	0
1,587	1,600	99%	1,056	150%	Repair & Maint - Equipment	4,801	4,800	100%	2,974	161%	19,200	27,347
557	0	0%	0	0%	Repair & Maint - Building	557	0	0%	0	0%	3,150	2,690
7,140	7,671	93%	7,671	93%	Equipment Lease	21,420	23,013	93%	23,021	93%	92,052	85,822
277	250	111%	201	138%	Utilities - Electric	846	750	113%	666	127%	3,000	3,383
1,644	1,800	91%	1,326	124%	Utilities - Other	4,583	5,400	85%	4,995	92%	21,600	21,299
267	200	134%	204	131%	Utilities - Water	716	800	89%	747	96%	2,600	2,657
0	0	0%	0	0%	Education & Training	0	0	0%	0	0%	550	400
178	50	356%	0	0%	Employee Relations	178	150	119%	0	0%	600	225
0	0	0%	0	0%	Employee Testing	34	0	0%	0	0%	0	92
0	0	0%	0	0%	O/S - Other	0	0	0%	0	0%	6,800	5,800
0	0	0%	0	0%	Tax/Licenses/Fees	0	0	0%	0	0%	150	165
22,206	24,071	92%	19,684	113%	TOTAL OPERATING EXPENSES	70,923	81,813	87%	67,415	105%	342,652	310,480
43,876	18,980	231%	28,273	155%	EBITDA	54,536	59,610	91%	59,181	92%	233,206	276,408
43,876	18,980	231%	28,273	155%	NET INCOME	54,536	59,610	91%	59,181	92%	233,206	276,408

The Golf Club at Cypress Head
Maintenance
For the Three Months Ending December 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
					OPERATING EXPENSES							
32	0	0%	0	0%	Employee Testing	32	0	0%	0	0%	0	32
32	0	0%	0	0%	TOTAL OPERATING EXPENSES	32	0	0%	0	0%	0	32
(32)	0	0%	0	0%	EBITDA	(32)	0	0%	0	0%	0	(32)
(32)	0	0%	0	0%	NET INCOME	(32)	0	0%	0	0%	0	(32)

The Golf Club at Cypress Head
Carts
For the Three Months Ending December 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
					REVENUES							
51,757	36,960	140%	50,713	102%	Cart Fee	126,152	118,850	106%	140,546	90%	534,440	564,895
51,757	36,960	140%	50,713	102%	Total Revenues	126,152	118,850	106%	140,546	90%	534,440	564,895
51,757	36,960	140%	50,713	102%	GROSS MARGIN	126,152	118,850	106%	140,546	90%	534,440	564,895
					PAYROLL							
10,556	8,087	131%	8,042	131%	Gross Payroll - Hourly	27,505	23,999	115%	24,074	114%	95,213	100,583
10,556	8,087	131%	8,042	131%	S/T Wages	27,505	23,999	115%	24,074	114%	95,213	100,583
877	619	142%	625	140%	Payroll Tax - FICA	2,203	1,836	120%	1,928	114%	7,284	8,236
54	199	27%	119	46%	Payroll Tax - UC	121	738	16%	282	43%	3,380	863
195	159	122%	150	130%	Payroll Tax - WC	469	472	99%	438	107%	1,928	1,949
(187)	0	0%	0	0%	Benefits	(187)	0	0%	0	0%	0	(179)
939	977	96%	894	105%	S/T Adders	2,606	3,046	86%	2,647	98%	12,591	10,869
11,495	9,063	127%	8,936	129%	TOTAL PAYROLL	30,111	27,044	111%	26,721	113%	107,804	111,452
					OPERATING EXPENSES							
26	100	26%	16	162%	Cart Supplies	257	300	86%	181	142%	1,200	2,248
2,094	0	0%	0	0%	Supplies	2,615	0	0%	0	0%	0	2,615
320	50	640%	183	175%	Cart Repairs	320	150	213%	324	99%	1,200	974
8,577	5,200	165%	3,535	243%	Cart Lease	25,731	15,600	165%	10,604	243%	62,400	59,155
614	900	68%	993	62%	Utilities - Electric	1,696	2,700	63%	2,924	58%	10,800	10,204
11,631	6,250	186%	4,726	246%	TOTAL OPERATING EXPENSES	30,620	18,750	163%	14,033	218%	75,600	75,196
28,631	21,647	132%	37,051	77%	EBITDA	65,421	73,056	90%	99,792	66%	351,036	378,247
28,631	21,647	132%	37,051	77%	NET INCOME	65,421	73,056	90%	99,792	66%	351,036	378,247

The Golf Club at Cypress Head
Range
For the Three Months Ending December 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
					REVENUES							
4,404	4,200	105%	5,205	85%	Range	11,184	13,100	85%	14,077	79%	52,400	48,703
4,404	4,200	105%	5,205	85%	Total Revenues	11,184	13,100	85%	14,077	79%	52,400	48,703
4,404	4,200	105%	5,205	85%	GROSS MARGIN	11,184	13,100	85%	14,077	79%	52,400	48,703
					OPERATING EXPENSES							
0	0	0%	0	0%	Range Balls	2,042	1,800	113%	1,760	116%	3,600	3,802
160	0	0%	0	0%	Range Equipment	672	0	0%	0	0%	1,050	1,759
0	450	0%	460	0%	Range Expenses	0	450	0%	460	0%	2,100	1,169
0	0	0%	0	0%	Repair & Maint - Equipment	0	0	0%	0	0%	100	0
160	450	36%	460	35%	TOTAL OPERATING EXPENSES	2,714	2,250	121%	2,220	122%	6,850	6,729
4,244	3,750	113%	4,745	89%	EBITDA	8,470	10,850	78%	11,857	71%	45,550	41,974
4,244	3,750	113%	4,745	89%	NET INCOME	8,470	10,850	78%	11,857	71%	45,550	41,974

The Golf Club at Cypress Head
Golf Shop
For the Three Months Ending December 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
					REVENUES							
95	20	475%	20	475%	Handicap Fee	95	60	158%	40	238%	4,130	5,080
739	500	148%	490	151%	Lessons	3,527	3,300	107%	3,308	107%	13,590	15,992
801	100	801%	140	572%	Rental Clubs	1,140	700	163%	820	139%	2,800	3,440
21,333	7,800	273%	7,809	273%	Retail	36,675	23,200	158%	23,185	158%	110,100	139,181
22,967	8,420	273%	8,459	272%	Total Revenues	41,436	27,260	152%	27,353	151%	130,620	163,693
					COST OF GOODS SOLD							
16,313	4,992	327%	4,695	347%	COGS - Merchandise	26,518	14,848	179%	13,867	191%	70,464	91,593
16,313	4,992	327%	4,695	347%	Total COGS	26,518	14,848	179%	13,867	191%	70,464	91,593
6,654	3,428	194%	3,764	177%	GROSS MARGIN	14,918	12,412	120%	13,486	111%	60,156	72,100
76.47%	64.00%	119.48%	60.12%	127.19%	COGS - Merchandise %	72.31%	64.00%	112.98%	59.81%	120.89%	64.00%	767.95%
					PAYROLL							
4,460	0	0%	0	0%	Gross Payroll - Salaried	5,845	0	0%	0	0%	0	5,845
3,620	6,661	54%	5,787	63%	Gross Payroll - Hourly	16,507	19,976	83%	17,961	92%	80,159	71,472
8,080	6,661	121%	5,787	140%	S/T Wages	22,352	19,976	112%	17,961	124%	80,159	77,317
616	510	121%	433	142%	Payroll Tax - FICA	1,707	1,528	112%	1,369	125%	6,132	5,934
7	16	45%	39	18%	Payroll Tax - UC	21	81	26%	76	27%	1,484	342
143	131	109%	104	138%	Payroll Tax - WC	378	393	96%	337	112%	1,624	1,514
808	579	140%	377	215%	Benefits	2,032	1,735	117%	1,556	131%	7,045	7,490
1,574	1,235	127%	953	165%	S/T Adders	4,138	3,737	111%	3,338	124%	16,285	15,281
9,654	7,896	122%	6,740	143%	TOTAL PAYROLL	26,489	23,713	112%	21,298	124%	96,444	92,598
					OPERATING EXPENSES							
0	50	0%	0	0%	Office Supplies	0	150	0%	10	0%	600	266
346	0	0%	0	0%	Supplies	2,051	0	0%	0	0%	200	5,913
47	50	93%	0	0%	Tournament Expense	47	150	31%	59	79%	600	231
256	225	114%	225	114%	Handicap Expense	256	225	114%	225	114%	5,175	5,328
0	50	0%	0	0%	Lesson Expense	0	150	0%	0	0%	1,000	350
0	0	0%	0	0%	Repair & Maint - Building	0	0	0%	97	0%	0	947
649	375	173%	225	288%	TOTAL OPERATING EXPENSES	2,353	675	349%	391	603%	7,575	13,036
(3,649)	(4,843)	75%	(3,201)	114%	EBITDA	(13,924)	(11,976)	116%	(8,203)	170%	(43,863)	(33,534)
(3,649)	(4,843)	75%	(3,201)	114%	NET INCOME	(13,924)	(11,976)	116%	(8,203)	170%	(43,863)	(33,534)

The Golf Club at Cypress Head
G & A
For the Three Months Ending December 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
PAYROLL												
12,909	10,785	120%	10,647	121%	Gross Payroll - Salaried	36,419	32,117	113%	31,452	116%	131,217	133,722
77	0	0%	0	0%	Gross Payroll - Hourly	128	0	0%	0	0%	0	128
12,986	10,785	120%	10,647	122%	S/T Wages	36,548	32,117	114%	31,452	116%	131,217	133,851
858	825	104%	726	118%	Payroll Tax - FICA	2,387	2,457	97%	2,163	110%	10,038	9,179
1	0	0%	56	1%	Payroll Tax - UC	1	0	0%	56	1%	519	(185)
231	212	109%	189	122%	Payroll Tax - WC	645	632	102%	564	114%	2,658	2,568
2,967	2,593	114%	1,485	200%	Benefits	8,792	7,775	113%	5,505	160%	31,628	21,886
4,056	3,630	112%	2,456	165%	S/T Adders	11,824	10,864	109%	8,288	143%	44,843	33,449
17,042	14,414	118%	13,103	130%	TOTAL PAYROLL	48,372	42,982	113%	39,741	122%	176,060	167,299
OPERATING EXPENSES												
370	250	148%	253	146%	Janitorial Supplies	1,517	2,450	62%	2,470	61%	8,000	6,473
271	100	271%	(372)	-73%	Laundry/Uniforms	1,192	1,300	92%	888	134%	2,200	1,823
696	400	174%	355	196%	Office Supplies	2,140	1,600	134%	1,521	141%	3,600	5,020
446	250	178%	204	219%	Alarm System	687	750	92%	441	156%	3,000	2,315
260	160	162%	160	163%	Computer Service	580	480	121%	480	121%	1,920	2,018
710	650	109%	812	87%	Contract Cleaning	1,793	1,950	92%	1,624	110%	7,800	7,667
3,660	0	0%	0	0%	Guest Relations	5,490	0	0%	0	0%	0	5,490
64	0	0%	0	0%	Repair & Maint - Equipment	64	0	0%	0	0%	500	4,394
318	150	212%	12	2742%	Repair & Maint - Building	653	450	145%	328	199%	6,700	8,945
206	206	100%	176	117%	Off-Site Storage	618	618	100%	528	117%	2,472	2,127
1,879	2,000	94%	1,581	119%	Utilities - Other	5,558	6,000	93%	5,488	101%	24,000	24,619
196	200	98%	190	103%	Utilities - Telephone/Fax	647	600	108%	571	113%	2,400	2,289
340	400	85%	337	101%	Bank Charges	987	1,200	82%	1,063	93%	4,800	4,070
(78)	0	0%	(222)	35%	Cash Short/(Over)	(120)	0	0%	(209)	58%	0	(549)
240	240	100%	200	120%	Cell Phone	720	720	100%	600	120%	2,880	2,520
3,447	3,423	101%	3,423	101%	City Surcharge R & R	8,455	9,762	87%	9,761	87%	38,940	38,780
3,626	3,300	110%	3,285	110%	Credit Card Discounts	10,659	11,100	96%	11,098	96%	36,500	42,137
0	0	0%	0	0%	Donations	0	0	0%	0	0%	0	573
1,042	200	521%	205	508%	Dues & Subscriptions	2,037	380	536%	385	529%	1,880	3,251
602	1,000	60%	614	98%	Employee Relations	724	1,100	66%	664	109%	1,550	413
7,675	6,700	115%	6,130	125%	Insurance Expense	23,025	20,100	115%	18,389	125%	80,400	82,931
(115)	50	-230%	0	0%	Member Relations	(109)	150	-73%	0	0%	600	2,382
0	0	0%	0	0%	Miscellaneous	8	0	0%	0	0%	0	2,089
7,500	7,000	107%	6,900	109%	O/S - Accounting	9,500	9,200	103%	9,000	106%	11,200	16,730
436	350	125%	437	100%	Payroll Processing Fee	1,194	1,050	114%	1,160	103%	4,350	5,117
156	250	62%	198	79%	Postage/Shipping	555	450	123%	431	129%	1,750	2,845
40	0	0%	(30)	-133%	Tax/Licenses/Fees	(20)	0	0%	(90)	22%	0	(215)
0	100	0%	245	0%	Travel - Meals	0	300	0%	477	0%	2,100	638
133	100	133%	0	0%	Travel - Other	7,801	300	2600%	972	802%	1,200	10,120
25	0	0%	0	0%	Employee Meals	25	0	0%	0	0%	0	45
34,145	27,479	124%	25,092	136%	TOTAL OPERATING EXPENSES	86,379	72,010	120%	68,041	127%	250,742	287,057
(51,187)	(41,893)	122%	(38,194)	134%	EBITDA	(134,751)	(114,992)	117%	(107,782)	125%	(426,802)	(454,357)
6,400	6,434	99%	6,307	101%	Management Fee	19,074	19,302	99%	18,922	101%	77,208	75,967
6,400	6,434	99%	6,307	101%	Management Fees	19,074	19,302	99%	18,922	101%	77,208	75,967
23	23	100%	23	100%	Deprec - Mach & Equip	69	69	100%	69	100%	277	277
72	72	100%	72	100%	Deprec - Buildings	217	217	100%	217	100%	869	869
96	96	100%	96	100%	S/T DEPR. & AMORT	287	287	100%	287	100%	1,146	1,146
(57,682)	(48,423)	119%	(44,597)	129%	NET INCOME	(154,111)	(134,580)	115%	(126,990)	121%	(505,156)	(531,470)

The Golf Club at Cypress Head
Marketing
For the Three Months Ending December 31, 2022

MTD Actual	MTD Budget	% of Budget	MTD Prior Year	% of PY		YTD Actual	YTD Budget	% of Budget	YTD Prior Year	% of PY	Annual Budget	
					PAYROLL							
4,698	3,742	126%	3,788	124%	Gross Payroll - Salaried	11,603	11,225	103%	10,722	108%	46,070	49,046
4,698	3,742	126%	3,788	124%	S/T Wages	11,603	11,225	103%	10,722	108%	46,070	49,046
259	286	90%	258	100%	Payroll Tax - FICA	807	859	94%	754	107%	3,524	3,350
0	15	0%	17	0%	Payroll Tax - UC	0	45	0%	17	0%	438	71
61	74	82%	68	89%	Payroll Tax - WC	192	221	87%	196	98%	933	900
41	42	99%	373	11%	Benefits	131	125	104%	1,559	8%	516	4,909
361	416	87%	716	50%	S/T Adders	1,130	1,249	90%	2,526	45%	5,411	9,230
5,059	4,158	122%	4,505	112%	TOTAL PAYROLL	12,733	12,474	102%	13,248	96%	51,481	58,276
					OPERATING EXPENSES							
2,177	1,500	145%	1,491	146%	Advertising & Promotion	4,032	5,800	70%	5,800	70%	23,400	22,118
2,177	1,500	145%	1,491	146%	TOTAL OPERATING EXPENSES	4,032	5,800	70%	5,800	70%	23,400	22,118
(7,236)	(5,658)	128%	(5,996)	121%	EBITDA	(16,765)	(18,274)	92%	(19,049)	88%	(74,881)	(80,394)
(7,236)	(5,658)	128%	(5,996)	121%	NET INCOME	(16,765)	(18,274)	92%	(19,049)	88%	(74,881)	(80,394)

The Golf Club at Cypress Head
For the Month Ending December 31, 2022

	12/31/21	01/31/22	02/28/22	03/31/22	04/30/22	05/31/22	06/30/22	07/31/22	08/31/22	09/30/22	10/31/22	11/30/22	12/31/22
REVENUES													
Green Fees & Cart Fees	130,620.88	146,646.41	174,387.59	182,972.82	173,758.14	141,552.86	95,476.77	116,104.71	84,541.09	82,527.75	76,416.40	132,017.55	151,836.60
Merchandise	7,808.70	13,122.82	6,291.91	18,267.01	13,066.12	15,134.23	11,876.71	10,206.64	8,434.76	6,106.00	5,732.44	9,609.82	21,332.57
Other Pro Shop	650.00	2,257.00	4,508.00	1,799.00	1,125.00	1,976.00	3,805.00	2,048.00	1,165.00	1,067.00	850.00	2,277.06	1,634.60
Range	5,204.78	4,490.38	5,083.52	5,383.38	4,817.50	4,512.00	3,733.68	4,056.10	3,180.02	2,262.58	2,957.24	3,822.98	4,403.90
Other Operating Revenues	3,422.54	3,615.24	4,048.58	4,269.48	4,244.57	3,530.17	2,739.74	3,222.79	2,489.12	2,164.82	1,863.48	3,144.77	3,448.98
TOTAL REVENUE	147,706.90	170,131.85	194,319.60	212,691.69	197,011.33	166,705.26	117,631.90	135,638.24	99,809.99	94,128.15	87,819.56	150,872.18	182,654.65
COST OF SALES													
Merchandise	4,694.96	9,569.52	4,398.65	13,796.15	5,096.01	12,425.01	5,846.96	5,006.48	5,262.08	3,673.81	3,551.22	6,654.04	16,313.10
TOTAL COGS	4,694.96	9,569.52	4,398.65	13,796.15	5,096.01	12,425.01	5,846.96	5,006.48	5,262.08	3,673.81	3,551.22	6,654.04	16,313.10
COGS - Merchandise %	60.1%	72.9%	69.9%	75.5%	39.0%	82.1%	49.2%	49.1%	62.4%	60.2%	61.9%	69.2%	76.5%
PAYROLL													
Course and Grounds	35,373.15	38,953.74	35,263.11	41,963.35	35,481.09	34,468.36	36,189.69	33,649.77	36,966.52	35,185.19	39,929.59	39,739.57	37,444.77
Carts, Range, Starters, Etc.	8,935.55	8,533.03	8,367.46	9,867.86	10,252.13	9,623.80	9,553.91	10,121.42	7,904.02	7,117.30	8,050.49	10,565.72	11,495.02
Pro Shop	6,739.89	7,310.81	6,802.65	8,052.21	6,387.14	6,971.60	8,661.40	8,204.05	6,904.70	6,814.31	6,958.36	9,878.88	9,654.01
General and Administrative	13,102.54	13,949.10	10,642.11	13,486.78	12,643.91	12,937.87	12,853.40	14,007.58	13,195.59	15,210.90	15,107.25	16,222.91	17,041.98
Marketing	4,504.63	4,233.20	5,532.05	5,541.28	4,090.93	6,733.56	4,678.56	4,808.85	3,970.08	5,954.61	3,811.96	3,862.00	5,058.98
TOTAL PAYROLL	68,655.76	72,979.88	66,607.38	78,911.48	68,855.20	70,735.19	71,936.96	70,791.67	68,940.91	70,282.31	73,857.65	80,267.08	80,694.76
OPERATING EXPENSES													
Course and Grounds	19,683.85	15,865.35	20,881.87	22,943.53	27,514.83	29,643.87	26,914.50	28,096.16	26,704.17	40,992.52	32,051.47	16,665.60	22,238.01
Carts, Range, Starters, Etc.	5,186.50	5,657.69	6,279.93	5,791.32	7,305.49	4,919.14	5,245.82	4,226.77	4,372.60	4,791.98	9,137.25	12,405.83	11,790.97
Pro Shop	225.00	39.23	4,304.00	14.26	0.00	19.66	5,504.04	257.32	353.48	190.44	179.65	1,524.96	648.62
General and Administrative	25,091.66	21,972.41	23,561.67	22,153.72	24,792.88	22,349.22	22,288.52	20,040.95	19,379.21	24,140.22	27,760.94	24,472.89	34,144.79
Marketing	1,491.40	1,168.29	872.61	1,338.02	1,802.05	2,710.57	6,158.67	2,002.95	688.48	1,344.02	813.11	1,042.17	2,176.64
TOTAL OPERATING EXPENSE	51,678.41	44,702.97	55,900.08	52,241.35	61,415.24	59,642.46	66,111.55	54,624.15	51,497.94	71,459.18	69,942.42	56,111.45	70,999.03
TOTAL EXPENSES	125,029.13	127,252.37	126,906.11	144,948.98	135,366.45	142,802.66	143,895.47	130,422.30	125,700.93	145,415.30	147,351.29	143,032.57	168,006.89
EBITDA	22,677.77	42,879.48	67,413.49	67,742.71	61,644.88	23,902.60	(26,263.57)	5,215.94	(25,890.94)	(51,287.15)	(59,531.73)	7,839.61	14,647.76

The Golf Club at Cypress Head

For the Month Ending December 31, 2022

	12/31/21	01/31/22	02/28/22	03/31/22	04/30/22	05/31/22	06/30/22	07/31/22	08/31/22	09/30/22	10/31/22	11/30/22	12/31/22
EBITDA	22,677.77	42,879.48	67,413.49	67,742.71	61,644.88	23,902.60	(26,263.57)	5,215.94	(25,890.94)	(51,287.15)	(59,531.73)	7,839.61	14,647.76
MANAGEMENT FEES	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,307.46)	(6,433.61)	(6,273.85)	(6,400.00)	(6,400.00)
Interest Expense - Debt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest Expense - Leases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest Income	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL FINANCING ACTIVITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER INCOME (EXPENSE)													
Non-Operating Revenue	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transfers from County	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Depreciation & Amortization	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)
Incentive Compensation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Partnership Income/(Loss)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gain/(Loss) On Disposal Of Assets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Expenses / Capital Reserve	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Taxes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL OTHER INCOME (EXPE	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)	(95.53)
NET INCOME	16,274.78	36,476.49	61,010.50	61,339.72	55,241.89	17,499.61	(32,666.56)	(1,187.05)	(32,293.93)	(57,816.29)	(65,901.11)	1,344.08	8,152.23
Paid Rounds	3,575.00	3,860.00	4,373.00	4,660.00	4,574.00	3,727.00	3,034.00	3,497.00	2,583.00	2,153.00	2,086.00	3,326.00	3,631.00
Annual Pass Rounds	391.00	381.00	443.00	414.00	430.00	400.00	313.00	307.00	307.00	311.00	206.00	312.00	353.00
Other Rounds	268.00	238.00	243.00	246.00	281.00	301.00	241.00	269.00	233.00	175.00	169.00	238.00	236.00
Total Rounds	4,234.00	4,479.00	5,059.00	5,320.00	5,285.00	4,428.00	3,588.00	4,073.00	3,123.00	2,639.00	2,461.00	3,876.00	4,220.00
Revenue/Paid Rounds	41.32	44.08	44.44	45.64	43.07	44.73	38.77	38.79	38.64	43.72	42.10	45.36	50.30
Revenue/Total Rounds	34.89	37.98	38.41	39.98	37.28	37.65	32.78	33.30	31.96	35.67	35.68	38.92	43.28
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**The Golf Club at Cypress Head
Course Cash Flow Report
December 31, 2022**

	<u>December</u>	<u>YTD</u>
EBITDA	\$14,647.76	(\$37,044.36)
Management Fee Expense	(6,400.00)	(19,073.85)
Depreciation & Amortization	(95.53)	(286.59)
Net Income	8,152.23	(56,404.80)
Working Capital Changes		
Inventory	(8,640.39)	(28,329.98)
Receivables	58.63	93,438.00
Payables	28,307.12	28,427.74
Due to from the City	0.64	1,199.73
Prepays	(12,225.29)	(13,805.56)
Accrued Liabilities	8,089.85	26,703.67
Other Liabilities	(38,922.94)	(70,269.79)
Depreciation & Amortization	95.53	286.59
Operating Cash Flow	(15,084.62)	(18,754.40)
Investing Cash Flows	<u> </u>	<u> </u>
Financing Cash Flow	<u> </u>	<u> </u>
Net Cash Flows	<u>(15,084.62)</u>	<u>(18,754.40)</u>
Beginning Cash	277,317.46	280,987.24
Net Cash Flows	<u>(15,084.62)</u>	<u>(18,754.40)</u>
Ending Cash	<u>262,232.84</u>	<u>262,232.84</u>

The Golf Club at Cypress Head
Course Cash Flow Report
For the Year Ended December 31, 2022

	OCT Actual	NOV Actual	DEC Actual	JAN Actual	FEB Actual	MAR Actual	APR Actual	MAY Actual	JUN Actual	JUL Actual	AUG Actual	SEP Actual
EBITDA	(59,532)	7,840	14,648	0	0	0	0	0	0	0	0	0
Management Fee Expense	(6,274)	(6,400)	(6,400)	0	0	0	0	0	0	0	0	0
Depreciation & Amortization	(96)	(96)	(96)	0	0	0	0	0	0	0	0	0
Net Income	(65,901)	1,344	8,152	0	0	0	0	0	0	0	0	0
Working Capital Changes												
Inventory	(6,201)	(13,489)	(8,640)	0	0	0	0	0	0	0	0	0
Receivables	92,368	1,011	59	0	0	0	0	0	0	0	0	0
Prepaid Expenses	8,069	(9,649)	(12,225)	0	0	0	0	0	0	0	0	0
Payables	(4,014)	4,134	28,307	0	0	0	0	0	0	0	0	0
Due to from the City	960	239	1	0	0	0	0	0	0	0	0	0
Accrued Expenses	6,872	11,742	8,090	0	0	0	0	0	0	0	0	0
Deferred Revenues	(32,874)	1,527	(38,923)	0	0	0	0	0	0	0	0	0
Depreciation & Amortization	96	96	96	0	0	0	0	0	0	0	0	0
Operating Cash Flow	(625)	(3,045)	(15,085)	0	0	0	0	0	0	0	0	0
Investing Activities												
Financing Activities												
Net Cash Flows	(625)	(3,045)	(15,085)	0	0	0	0	0	0	0	0	0
Beginning Cash	280,987	280,363	277,317	262,233	275,406	275,406	275,406	275,406	275,406	275,406	275,406	275,406
Net Cash Flows	(625)	(3,045)	(15,085)	0	0	0	0	0	0	0	0	0
Ending Cash	280,363	277,317	262,233	262,233	275,406	275,406	275,406	275,406	275,406	275,406	275,406	275,406



December 14, 2022

Robin Fenwick
City of Port Orange
1000 City Center Circle
Port Orange, FL 32129

Dear Ms. Fenwick,

The following is the financial and operational summary report for November 2022 at Cypress Head Golf Club. These numbers reflect only the Golf portion for the month and year to date.

FINANCIAL SUMMARY FOR GOLF MONTH ENDING NOVEMBER 2022								
	Current				Year to Date			
	Actual	Budget	Variance vs. Budget		Actual	Budget	Prior Year	Variance vs. Budget
Revenue								
Green Fees	\$ 86,203	\$ 92,365	\$ (6,162)		\$ 134,039	\$ 167,027	\$ 139,393	\$ (32,988)
Cart Fees	\$ 45,815	\$ 43,210	\$ 2,605		\$ 74,395	\$ 81,890	\$ 89,833	\$ (7,495)
Range	\$ 3,823	\$ 4,600	\$ (777)		\$ 6,780	\$ 8,900	\$ 8,873	\$ (2,120)
Pro- Shop Revenues	\$ 11,887	\$ 9,320	\$ 2,567		\$ 18,469	\$ 18,840	\$ 18,894	\$ (371)
City Surcharge R/R	\$ 3,145	\$ 3,200	\$ (55)		\$ 5,008	\$ 6,300	\$ 6,339	\$ (1,292)
Total Revenue	\$ 150,873	\$ 152,695	\$ (1,822)		\$ 238,691	\$ 282,957	\$ 263,332	\$ (44,266)
Cost of Sales	\$ 6,654	\$ 4,864	\$ 1,790		\$ 10,205	\$ 9,856	\$ 9,172	\$ 349
Merchandise	\$ 6,654	\$ 4,864	\$ 1,790	49%	\$ 10,205	\$ 9,856	\$ 9,172	\$ 349
Gross Margin	\$ 144,219	\$ 147,831	\$ (3,612)		\$ 228,486	\$ 273,101	\$ 254,160	\$ (44,615)
Total Payroll	\$ 80,267	\$ 72,254	\$ 8,013		\$ 154,125	\$ 145,637	\$ 134,818	\$ 8,488
Total Operating Expenses	\$ 56,111	\$ 57,486	\$ (1,375)		\$ 126,054	\$ 121,173	\$ 106,222	\$ 4,881
EBITDA	\$ 7,841	\$ 18,091	\$ (10,250)		\$ (51,693)	\$ 6,291	\$ 13,120	\$ (57,984)
Other Expenses	\$ 6,496	\$ 6,530	\$ (34)		\$ 12,865	\$ 13,059	\$ 12,806	\$ (194)
Management Fee	\$ 6,400	\$ 6,434	\$ (34)		\$ 12,674	\$ 12,868	\$ 12,615	\$ (194)
Interest Expense	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -
Depreciation	\$ 96	\$ 96	\$ -		\$ 191	\$ 191	\$ 191	\$ -
Net Cash From Ops	\$ 1,345	\$ 11,561	\$ (10,216)		\$ (64,558)	\$ (6,768)	\$ 314	\$ (57,790)
Rounds								
Total Rounds	3,876	3,631	245		6,337	6,809	7,943	(472)
Paid Rounds	3,326	3,106	220		5,412	5,692	6,693	(280)
Avg. GF/CF Total rounds	\$34.06	\$37.34	\$ (3.28)		\$32.89	\$36.56	\$28.86	\$ (3.67)
Avg. GF/CF Paid rounds	\$39.69	\$43.65	\$ (3.96)		\$38.51	\$43.73	\$34.25	\$ (5.22)
Avg. Merchandise/round	\$3.07	\$2.57	\$ 0.50		\$2.91	\$2.77	\$2.38	\$ 0.15

Overview:

- Overall golf revenues for November finished slightly below (1%) projected budget for the month. The golf course was closed for 2 days as Hurricane Nicole made her way through the area. We were able to re-open the day after with cart paths only for the weekend. All in all we had 27 playable days and averaged 144 rounds per playable day. Revenues missed by \$1.8K as a result of the rain event and subsequent missed days. We played 3,876 total rounds to a budget of 3,631 (over by 245).
- Total payroll for the month was \$80.3K, over by only \$8K. Jeff Dayton has been growing into his role as General Manager and the team has been rallying behind him. Darren Bache, Susanne Snider, Reggie Hunter, and Dylan Quintrell have done a great job leading the in their respective departments.
- While rounds exceeded budget, green fee revenue was down by 7%, signifying a need for some rate adjustments. Heading into the height of golf season, we will be implementing our peak season rate increases as has typically been done.

CAPEX Projects:

- There were no projects for the month of November 2022. We are in the process of securing the purchase of a new range ball dispenser and ball washer. While our main cart path repair bidder has been contacted, we discovered another possible contractor whom we are awaiting another bid. The tree cleanup should be completed by the end of December at the latest.

Tee Sheet Activity:

- There were 2,461 total rounds for the month which included 2,086 paid rounds, 206 Annual with Cypress Pass member rounds and 169 other rounds. The round type for the month included 1,811 eighteen-hole rounds and 650 nine-hole rounds.
- The Golf staff continues to monitor daily tee sheet activity and they are trained to recognize underutilization of the tee sheet and offer promotional prices through the website and GolfNow.

- Player Assistants have been scheduled and trained. Their primary goal will be to assist golfers while on the course, monitor pace of play, and enforce rules and regulations. Thus far, their presence has improved the golf experience and added to our level of service regarding on course attention.

November 2022 and YTD Rounds Mix

Type	Actual	Budget	Month-PY	YTD	YTD-Budg	YTD - PY
PAID	3326	3106	3398	5412	5692	6693
ANNUAL	312	305	334	518	666	709
OTHER	238	220	261	407	451	541
TOTAL ROUNDS	3876	3631	3993	6337	6809	7943

Departmental Summaries:

Course & Grounds/Range

- Our Superintendent, Darren Bache continues to follow the agronomic program that he developed for Cypress Head and along with his guidance, Cypress Head is ranked as the Best Golf Course for both Flagler and Volusia Counties.
- We had 6.53" of rain in November, mostly as a result of Hurricane Nicole, so keeping up with mowing frequency and repairing bunkers was challenging and time consuming. We over seeded teeing grounds in November and that went well, making for a nice presentation and affording high turf quality to our golfers.

Golf Shop/Carts

- Custom golf club sales continue to trend well. We will be increasing our inventory of hard goods, especially as the new generations of equipment become available to the market in the coming months. We have one Titleist fitting date on December that booked out, and any more to come in early 2023.
- We continue to follow all regular maintenance procedures regarding the cart fleet which includes registering monthly totals for battery amperage and mileage. The relatively new fleet of golf carts are performing nicely with just some minor repairs occasionally.
- The staff at Cypress Head Golf Course continues to offer individual lessons as well as group lessons. Of course, the weather affected lessons as well as golf and

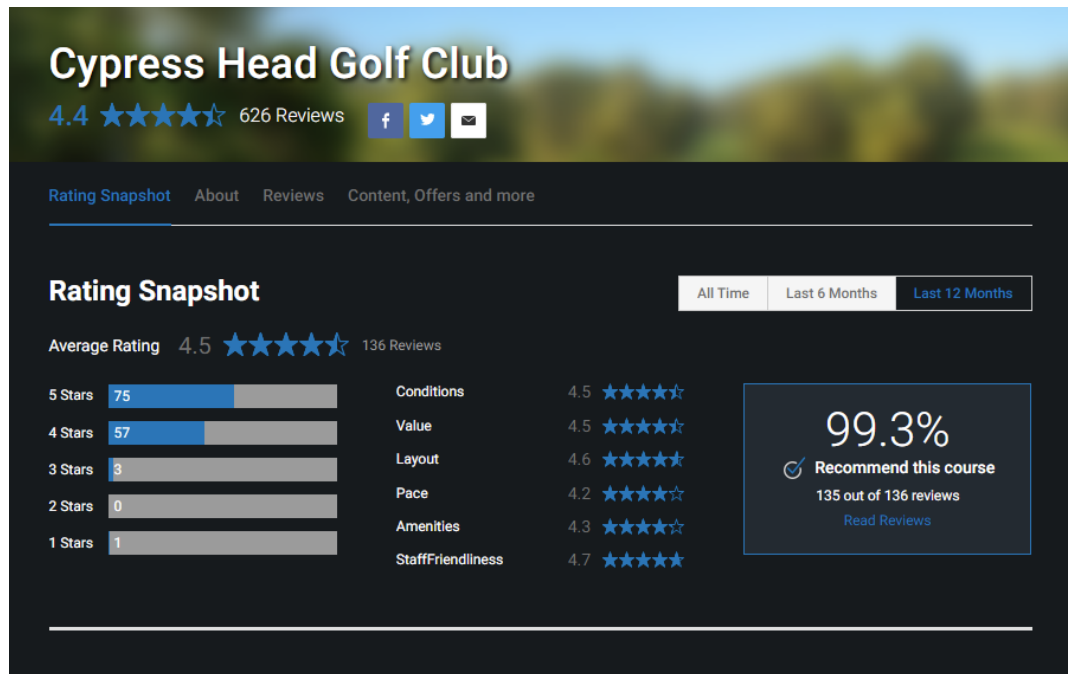
range traffic throughout the month and especially most of November. Jeff is committed to Player Development and our Monday clinics will take a pause in December but resume in January.

- The MGA and the WGA have continued their league play for the month and we have seen an increase in players as a result of incredible course conditions and an influx of new home purchases in the area.
- We hosted four tournaments in November, with over 300 players, generating over \$15K in revenue and to rave reviews from the participants.

Marketing and Sales:

- We are continuing our involvement with Golf Pac, and Tee-Times USA along with other National wholesaler and Golf Now to maximize utilization of our tee sheet.
- Cypress Head continues to be active members of the Port Orange South Daytona Chamber of Commerce, Daytona Chamber of Commerce, SEV Chamber and Rotary International.
- POSD Chamber of Commerce is keeping us informed regarding the challenges of the business and local community.
- We continue to maintain our database of emails with approximately 10,784 unique e-mail addresses. The golf staff continues to update player profiles including residency, phone numbers and proper classifications of all players.
- Jeff and the team have decided on Lightspeed as the new POS/Website platform that Cypress Head will transition to in mid-April.
- Outside tournament bookings are very strong as we prepare for the 2023 season.

	▼					
	NPS	Overall Rating	Service Rating	Course Rating	Recommend Rating	# of Surveys
Goal Index	70.0 70.0					
Totals	93.4	9.5	9.7	9.2	9.7	198
Golf	93.4	9.5	9.7	9.2	9.7	198
Cypress Head Golf Club	93.4	9.5	9.7	9.2	9.7	198



We continue to deliver True Service to our members and guests and insure they enjoy their experience here at Cypress Head. With our NPS at 93.4 and all vital categories well above 9.0, it is apparent that the team is delivering a “Best in Class” golf experience.

Corporate Support:

- Kemper Sports Center for Excellence – Ongoing resource. We have been participating in monthly webinars designed to share best practices used at Kemper properties throughout the country.

Insights:

- The team at Cypress Head continues to work well with the entire staff at the Parks & Recreation department to continue providing the “Best in Class” experience for all players.



Respectfully Submitted,

Jeff Dayton, PGA

General Manager
The Golf Club at Cypress Head

Matt Lindley

Vice President Operations
KemperSports Management



January 14, 2023

Robin Fenwick
City of Port Orange
1000 City Center Circle
Port Orange, FL 32129

Dear Ms. Fenwick,

The following is the financial and operational summary report for December 2022 at Cypress Head Golf Club. These numbers reflect only the Golf portion for the month and year to date.

FINANCIAL SUMMARY FOR GOLF MONTH ENDING DECEMBER 2022								
	Current				Year to Date			
	Actual	Budget	Variance vs. Budget		Actual	Budget	Prior Year	Variance vs. Budget
Revenue								
Green Fees	\$ 100,080	\$ 77,701	\$ 22,379		\$ 234,118	\$ 244,728	\$ 219,301	\$ (10,610)
Cart Fees	\$ 51,757	\$ 36,960	\$ 14,797		\$ 126,152	\$ 118,850	\$ 140,546	\$ 7,302
Range	\$ 4,404	\$ 4,200	\$ 204		\$ 11,184	\$ 13,100	\$ 14,077	\$ (1,916)
Pro- Shop Revenues	\$ 22,968	\$ 8,420	\$ 14,548		\$ 41,437	\$ 27,260	\$ 27,353	\$ 14,177
City Surcharge R/R	\$ 3,447	\$ 3,200	\$ 247		\$ 8,455	\$ 9,500	\$ 9,761	\$ (1,045)
Total Revenue	\$ 182,656	\$ 130,481	\$ 52,175		\$ 421,346	\$ 413,438	\$ 411,038	\$ 7,908
Cost of Sales	\$ 16,313	\$ 4,992	\$ 11,321		\$ 26,518	\$ 14,848	\$ 13,867	\$ 11,670
Merchandise	\$ 16,313	\$ 4,992	\$ 11,321	49%	\$ 26,518	\$ 14,848	\$ 13,867	\$ 11,670
Gross Margin	\$ 166,343	\$ 125,489	\$ 40,854		\$ 394,828	\$ 398,590	\$ 397,171	\$ (3,762)
Total Payroll	\$ 80,695	\$ 73,381	\$ 7,314		\$ 234,819	\$ 219,018	\$ 203,474	\$ 15,801
Total Operating Expenses	\$ 70,999	\$ 60,125	\$ 10,874		\$ 197,053	\$ 181,298	\$ 157,900	\$ 15,755
EBITDA	\$ 14,649	\$ (8,017)	\$ 22,666		\$ (37,044)	\$ (1,726)	\$ 35,797	\$ (35,318)
Other Expenses	\$ 6,496	\$ 6,530	\$ (34)		\$ 19,265	\$ 19,493	\$ 19,113	\$ (228)
Management Fee	\$ 6,400	\$ 6,434	\$ (34)		\$ 19,074	\$ 19,302	\$ 18,922	\$ (228)
Interest Expense	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -
Depreciation	\$ 96	\$ 96	\$ -		\$ 191	\$ 191	\$ 191	\$ -
Net Cash From Ops	\$ 8,153	\$ (14,547)	\$ 22,700		\$ (56,309)	\$ (21,219)	\$ 16,684	\$ (35,090)
Rounds								
Total Rounds	4,220	3,006	1,214		10,557	9,815	12,177	742
Paid Rounds	3,631	2,513	1,118		9,043	8,205	10,268	838
Avg. GF/CF Total rounds	\$35.98	\$38.14	\$ (2.16)		\$34.13	\$37.04	\$29.55	\$ (2.92)
Avg. GF/CF Paid rounds	\$41.82	\$45.63	\$ (3.81)		\$39.84	\$44.31	\$35.05	\$ (4.47)
Avg. Merchandise/round	\$5.44	\$2.80	\$ 2.64		\$3.93	\$2.78	\$2.25	\$ 1.15

Overview:

- Total revenues for December finished well ahead of projected budget for the month. The golf course realized 4 unplayable days plus a cold Christmas Eve and closed on Christmas. We had 25 playable days and averaged 169 rounds per playable day. Total Revenues (\$182.7K) exceeded budget by 40% as a result of some make up day tournaments and holiday play. We played 4,220 total rounds to a budget of 3,006 (over by 1,214).
- Total Payroll for the month was \$80.7K, over by only \$7.3K. Total Operating Expenses were \$10.7K.
- While rounds exceeded budget by 40%, green fee revenue exceeded budget by 29%, trending toward a more positive correlation. On December 30th, we implemented our peak season rate increase as has typically been done year over year.
- We made up some significant ground on EBITDA, exceeding our monthly budget by \$22.7K.
- We are happy to report that our Cypress Head team is 100% certified through the first 4 modules of KemperSports True Service training model.

CAPEX Projects:

- There were no projects for the month of December 2022. We are in the process of securing the purchase of a new range ball dispenser and ball washer, which will happen in January. While our main cart path repair bidder has been contacted, we have been seeking other offers as contractors become more available. The tree work should be mostly complete by the end of December and Darren will perform the final cleanup in January.

Tee Sheet Activity:

- There were 4,220 total rounds for the month which included 3,631 paid rounds, 353 Annual Pass rounds and 236 other rounds. The round type for the month included 3,327 eighteen-hole rounds and 893 nine-hole rounds.
- The Golf staff continues to monitor daily tee sheet activity and they are trained to recognize underutilization of the tee sheet and offer promotional prices through the website and GolfNow.
- Player Assistants continue to be scheduled and mentored. Their primary goal will be to assist golfers while on the course, monitor pace of play, and enforce rules and regulations. Thus far, their

presence has improved the golf experience and added to our level of service regarding on course attention.

December 2022 and YTD Rounds Mix

Type	Actual	Budget	Month-PY	YTD	YTD-Budg	YTD - PY
PAID	3,631	2,513	3,575	9,043	8,205	10,628
ANNUAL	353	278	391	871	944	1,100
OTHER	236	215	268	643	666	809
TOTAL ROUNDS	4,220	3,006	4,234	10,557	9,815	12,537

Departmental Summaries:

Course & Grounds

- Our Superintendent, Darren Bache continues to follow the agronomic program that he developed for Cypress Head and along with his guidance, Cypress Head is ranked as the Best Golf Course for both Flagler and Volusia Counties.
- We only saw 1.1" of rain in December, but had a brief system move thru in the middle of the month affecting play. We saw a big chill around Christmas which affected our Christmas Eve and day after Christmas numbers some.

Golf Shop/Carts

- The Golf Shop is looking great and stocked completely with all of our golfers needs (and wants). We exceed budgeted Golf Shop sales by \$14.5K in December.
- We continue to follow all regular maintenance procedures regarding the cart fleet which includes registering monthly totals for battery amperage and mileage. The relatively new fleet of golf carts are performing nicely with just some minor repairs occasionally.
- The staff at Cypress Head Golf Course continues to offer individual lessons as well as group lessons. Cypress Head began our Saturday PDP Clinics in

December and saw great participation. Our Monday clinics took a pause in December but will resume in January.

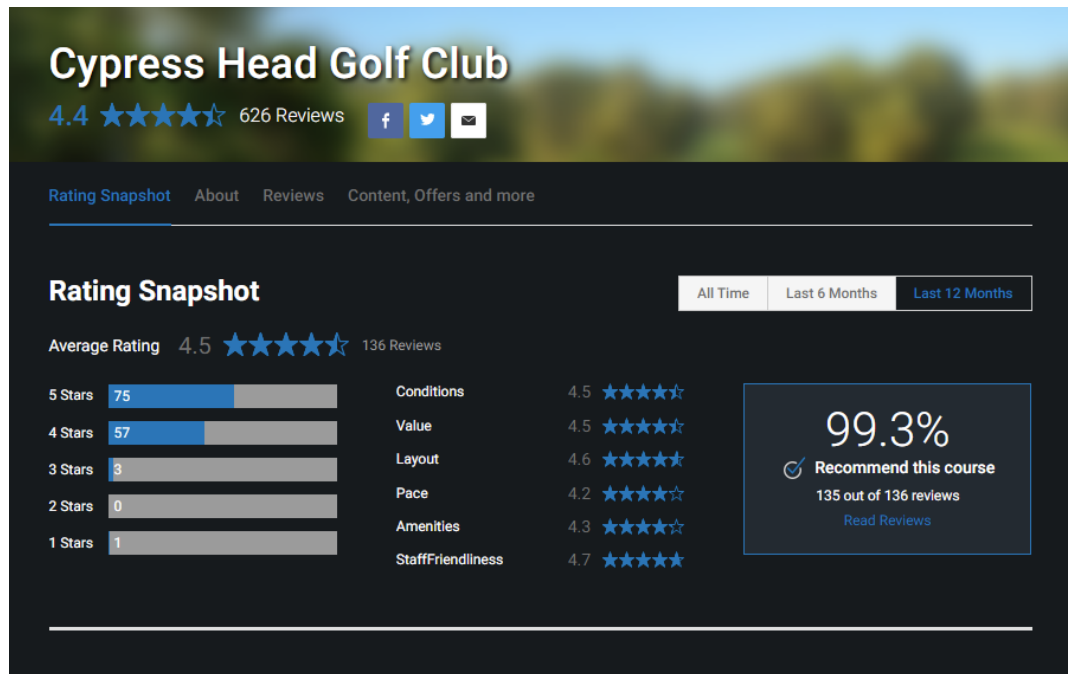
- The MGA and the WGA have continued their league play for the month and we have seen an increase in players as a result of incredible course conditions and an influx of new home purchases in the area.
- We hosted five tournaments in December, with over 420 players, generating over \$24K in revenue and to rave reviews from the participants.

Marketing and Sales:

- Cypress Head continues to be active members of the Port Orange South Daytona Chamber of Commerce, Daytona Chamber of Commerce, SEV Chamber and Rotary International.
- We continue to maintain our database of emails with approximately 10,757 unique e-mail addresses. Our Facebook followers are up to 1,434 and Instagram shows 359 followers.
- Nightly surveys were reactivated in December, highlighted by 125 surveys being submitted and an NPS of 92.0 for December. (Please see table below).
- Outside tournament bookings are very strong as we prepare for the 2023 season.

REPORT CRITERIA	
Date of Survey	12/1/22 - 12/31/22
Select level:	Cypress Head Golf Club

	▼					
	NPS	Overall Rating	Service Rating	Course Rating	Recommend Rating	# of Surveys
Goal Index	70.0 70.0					
Totals	92.0	9.6	9.7	9.3	9.7	125
Golf	92.0	9.6	9.7	9.3	9.7	125
Cypress Head Golf Club	92.0	9.6	9.7	9.3	9.7	125



We continue to deliver True Service to our members and guests and insure they enjoy their experience here at Cypress Head. With our NPS at 92.0 and all vital categories well above 9.0, it is apparent that the team is delivering a “Best in Class” golf experience.

Corporate Support:

- Kemper Sports Center for Excellence – Ongoing resource. We have been participating in monthly webinars designed to share best practices used at Kemper properties throughout the country.

Insights:

- The team at Cypress Head continues to work well with the entire staff at the Parks & Recreation department to continue providing the “Best in Class” experience for all players.



Respectfully Submitted,

Jeff Dayton, PGA

General Manager
Cypress Head Golf Club

Matt Lindley

Vice President Operations
KemperSports Management



CITY COUNCIL AGENDA ITEM

COUNCIL MEETING DATE 2/7/2023

SUBJECT: (G16) Golf Course Advisory Board Report

DEPARTMENT: City Clerk

GOAL:

RECOMMENDED MOTION:

SUMMARY:

PRESENTER:

ATTACHMENTS:

Tracee Cody

Created/Initiated - 1/23/2023



CITY COUNCIL AGENDA ITEM

COUNCIL MEETING DATE 2/7/2023

SUBJECT: (H17) Declaration of Vacant Council Seat District 2

DEPARTMENT: City Manager

GOAL: 6 - Organizational Excellence

RECOMMENDED MOTION: Move to declare a vacancy for the council member seat in District 2.

SUMMARY: Councilwoman Kat Atwood's submitted her Resignation Letter dated January 17, 2023. Pursuant to Charter Section 3.05(a), Council must declare a vacancy for District Seat 2.

Charter Section 3.05(a) provides for:

Vacancies. The office of a council member shall become vacant upon his death, resignation, removal from office in any manner authorized by law or forfeiture of his office, such forfeiture to be declared by the remaining members of the council.

PRESENTER: Robin Fenwick

ATTACHMENTS:

1.	Charter Section 3.05	Charter Section 3.05.pdf
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Robin Fenwick
Matthew Jones
Wayne Clark
Robin Fenwick

Created/Initiated - 1/26/2023
Approved - 1/26/2023
Approved - 1/27/2023
Final Approval - 1/27/2023

- **Sec. 3.05. - Vacancies; forfeiture of office; filling of vacancies.**

[SHARE LINK TO SECTION](#) [PRINT SECTION](#) [DOWNLOAD \(DOCX\) OF SECTIONS](#) [EMAIL SECTION](#) [COMPARE VERSIONS](#)

(a)

Vacancies. The office of a council member shall become vacant upon his death, resignation, removal from office in any manner authorized by law or forfeiture of his office, such forfeiture to be declared by the remaining members of the council.

(b)

Forfeiture of office. Any member of the city council who shall cease to reside within the city or to have or possess any of the qualifications herein imposed for members of the city council or who shall, while in office, be convicted of a felony, shall forfeit his office, and the seat shall be deemed to be vacant immediately. Absence from three consecutive regular meetings of the city council shall operate to vacate the seat of a member unless a leave of absence is first granted by the city council or such absence is excused by the city council by approval of a motion setting forth the fact of such excuse, duly entered in the minutes.

(c)

Filling of vacancies. A vacancy of the council shall be filled in one of the following ways: (1) If there are less than twelve (12) months remaining in the unexpired term or if there are less than twelve (12) months before the next regular city election, the council by a majority vote of the remaining members shall choose a successor to serve until the newly elected council member is qualified; (2) if there are more than twelve (12) months remaining in the unexpired term and no regular city election is scheduled within twelve (12) months, the council shall fill the vacancy on an interim basis as provided in (1), and shall schedule a special election and a primary election to fill the vacancy for the remainder of the unexpired term. The special election and primary election may be held on the day of any state or county primary or general election. Notwithstanding any quorum requirements established herein, if at any time the membership of the council is reduced to less than a quorum, the remaining members may by majority vote appoint additional members under either (1) or (2) above.

(d)

Extraordinary vacancies. In the event that all members of the council are removed by death, disability, law or forfeiture of office, the governor shall appoint an interim council that shall call a special election as provided in (c) above.

(Ord. No. 1993-30, § 1, 8-10-93; Ord. No. 1993-31, § 1, 8-10-93)

Editor's note— Ord. No. 1993-30 and Ord. No. 1993-31 were approved at a special election held on October 5, 1993.



CITY COUNCIL AGENDA ITEM

COUNCIL MEETING DATE 2/7/2023

SUBJECT: (H18) Discussion on Interim Council Member and Special Election for District 2 Council Member

DEPARTMENT: City Manager

GOAL: 6 - Organizational Excellence

RECOMMENDED MOTION: Council direction is requested as to the:

- 1) Criteria for Interim Council Member,
 - 2) Process for applying, and
 - 3) Special Election date.
-

SUMMARY: Due to the resignation of Councilwoman Kat Atwood effective January 17, 2023 and pursuant to the City's Charter, an interim City Council member will need to be appointed to serve until a special election takes place in 2023.

Under similar circumstances in 2021, Council met to declare a vacancy, schedule a qualifying period, declare special election dates, and appoint an interim council member. It is recommended that this same approach be taken again.

When the appointment of a council member was required previously, Council accepted applications and resumes from those interested for up to one month and then met to interview and make the appointment. Council will need to determine the application to be utilized, the timeframe for accepting the applications, the criteria for individuals interested in serving, and the special election dates.

Staff has worked with the County Supervisor of Elections on potential Primary and Run-Off Election dates and is prepared to review those options with Council. The estimated cost of the Special Election is approximately \$50,000. Funds to cover the 2023 Special Election will need to be transferred to the City Clerk's budget.

The City's Charter pertaining to the filling of vacancies is attached.

PRESENTER: Robin Fenwick

ATTACHMENTS:

1.	2023 Special Election Date Options	2023 Special Election Date Options.pptx
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Robin Fenwick	Created/Initiated - 1/26/2023
Matthew Jones	Approved - 1/26/2023
Wayne Clark	Approved - 1/27/2023
Robin Fenwick	Final Approval - 1/27/2023



Policy Items for Consideration

- Criteria for Interim Council Member
 - Residency
- Process for applying
 - Application to be used
 - Deadline for submittal
 - Interviews/selection date
- Special Election Date



2023 Special Election Options

Special Election Date Options



Election Date	Run Off Date	Qualifying Period	1st Legal Ad due	Notes
5/9/2023	7/25/2023	2/27-3/3/2023	2/19/2023	
6/13/2023	8/29/2023	4/3-4/7/2023	3/26/2023	4/7 is Good Friday holiday
6/27/2023	9/12/2023	4/17-4/21/2023	4/9/2023	
7/11/2023	9/26/2023	5/1-5/5/2023	4/23/2023	Budget Workshop being planned for 7/11
7/25/2023	10/10/2023	5/15-5/19/2023	5/7/2023	
8/22/2023	11/7/2023	7/12-7/16-2023	6/4/2023	Regular election cycle